20020810.qrp v02_n643.qrl.20020810

Date: Sat, 10 Aug 2002 19:03:06 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2643

QRP-L Digest 2643

Topics covered in this issue include:

 1) [131919] Rock Mite Enclosures!
 by Jim Cluett <w1pid@yahoo.com>
 2) [131920] Re: End feeding a dipole
 by "Stuart Rohre" <rohre@arlut.utexas.edu>
 3) [131921] lOG FOX K0FRP
 by "Al Dawkins" <alk0frp@attbi.com>
 4) [131922] Re: [131894] 222 converter?
 by Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
 5) [131923] K0FRP computer date
 by "Al Dawkins" <alk0frp@attbi.com>
 6) [131924] 'nother Rock-mite spawned
 by "P.Ermisch" <ermisch@usa.net>
 7) [131925] NA 10.56 logging program
 by "Al Dawkins" <alk0frp@attbi.com>
 8) [131926] Re: UPDATED: the Rock-Mite files
 by "Rod N0RC" <rod@n0rc.us>
 9) [131927] 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
 by "Rod N0RC" <rod@n0rc.us>
 10) [131928] Re: Dipole >?<
 by Rick McKee <kc8aon@juno.com>
 11) [131929] Mitey rocks, rocky mites, flea bites & tiny little thingies
 by Nils R Young <nilsbull@juno.com>
 12) [131930] Re: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
 by "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
 13) [131931] Re: 0100 try Re: Rock-Mite: AA1MY & N0RC
 by "ss lyon" <sslyon@megalink.net>
 14) [131932] Re: 0200 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
 by "Rod N0RC" <rod@n0rc.us>
 15) [131933] Re: 0100 try Re: Rock-Mite: AA1MY & N0RC
 by Hank Kohl K8DD <k8dd@arrl.net>
 16) [131934] Rock Mite vs Work All Europe....
 by "ss lyon" <sslyon@megalink.net>
 17) [131935] Re: Totally Off topic Query About Something I saw on the East
 Coast
 by "James R. Duffey" <jamesd1@flash.net>
 18) [131936] Re: End feeding a dipole
 by "Karl F. Larsen" <k5di@zianet.com>

19) [131937] My regen rcvr./ Was that your Rock-mite?
 by "Howard Kraus" <K2UD@adelphia.net>
20) [131938] Re: NH AT, SATURDAY
 by "Doug Hendricks" <ki6ds@dospalos.org>
21) [131939] Re: lOG FOX K0FRP
 by "Karl F. Larsen" <k5di@zianet.com>
22) [131940] Re: [CQCLIST] Altoids tins available
 by Edgar R Guillot <n5ed@juno.com>
23) [131941] HB: Portable Free-Standing Antenna Mast Frame
 by Monty N5FC <n5fc@io.com>
24) [131942] Re: 0300 try UNCLE! Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
 by "Rod N0RC" <rod@n0rc.us>
25) [131943] Re: My regen rcvr./ Was that your Rock-mite?
 by Bob Liesenfeld <wb0poq@visi.com>
26) [131944] 0329Z - AA1MY Rock-Mite Spotted!
 by David Gauding <david.gauding@bbs.galilei.com>
27) [131945] Re: [Re: 0300 try UNCLE! Re: Rock-Mite: AA1MY & N0RC to attempt LD
QSO]
 by "P.Ermisch" <ermisch@usa.net>
28) [131946] Frank Roberts Email address???
 by "Doug Hendricks" <ki6ds@dospalos.org>
29) [131947] Ordering stuff from the NJQRP
 by "George Heron N2APB" <n2apb@erols.com>
30) [131948] Magazine Article?
 by "George, W5YR" <w5yr@att.net>
31) [131949] Re: Clisby Vertical Milling Machine and Lathes
 by George Gingell <k3tks@u1.abs.net>
32) [131950] ROCK MITE - AA1MY Report
 by "ss lyon" <sslyon@megalink.net>
33) [131951] So You Want to be a Builder, Huh? Part 2
 by "Doug Hendricks" <ki6ds@dospalos.org>
34) [131952] Coax shorten dipoles?
 by Dan Tayloe <dtayloe@cox.net>
35) [131953] KG6CYN (Radio Trev) Shack Pics...
 by "Trevor Jacobs" <kg6cyn@earthlink.net>
36) [131954] Got My Rock-Mite!!!!
 by "Dennis Ponsness" <wb0wao@hotmail.com>
37) [131955] Re: The Mighty Rock Mite!
 by Nelson Winter <thenels@go.com>
38) [131956] Re: Coax shorten dipoles?
 by "Karl F. Larsen" <k5di@zianet.com>
39) [131957] QRP - GPS redux
 by "ss lyon" <sslyon@megalink.net>
40) [131958] Re: [Re: The Mighty Rock Mite!]
 by "P.Ermisch" <ermisch@usa.net>
41) [131959] NH AT HIKE CANCLED
 by Steven Weber <kd1jv@moose.ncia.net>
42) [131960] Re: Older headphones

 by William R Colbert <w5xe@juno.com>
43) [131961] Re: QRP - GPS redux
 by Bruce Grubbs <mail@brucegrubbs.com>
44) [131962] Re: Got My Rock-Mite!!!!
 by "W2BJ" <w2bj@minsky.info>
45) [131963] It's Crystal Clear (first filter) (1,464 words)
 by Nick Kennedy <nkennedy@tcainternet.com>
46) [131964] Re: Rock Mite Enclosures!
 by "W2BJ" <w2bj@minsky.info>
47) [131965] SWL Kit?
 by John Wagner <john@wagner-usa.net>
48) [131966] Re: Coax shorten dipoles
 by "James R. Duffey" <jamesd1@flash.net>
49) [131967] RE: Clisby Vertical Milling Machine and Lathes
 by Tom Popovic <ki3r@yahoo.com>
50) [131968] Re: It's Crystal Clear (first filter) (1,464 words)
 by Bill Meara <n2cqr@clix.pt>
51) [131969] Re: It's Crystal Clear (first filter) (1,464 words)
 by "Leon Heller" <leon_heller@hotmail.com>
52) [131970] Heathkit HM-9 QRP wattmeter info sought
 by Mike <mparkes@att.net>
53) [131971] RE: Clisby Vertical Milling Machine and Lathes
 by "Leon Heller" <leon_heller@hotmail.com>
54) [131972] Coax Shortened Dipole
 by "Frank Emens" <femens@hiwaay.net>
55) [131973] CNC Rock mite case
 by "TC Dufresne" <tdufresne@neb.rr.com>
56) [131974] Re: Heathkit HM-9 QRP wattmeter info sought
 by William R Colbert <w5xe@juno.com>
57) [131975] Coax shortened Dipole
 by <jfox6@houston.rr.com>
58) [131976] 'Mi-Te-Box update
 by "Doug Hauff" <dhauff@digitalputty.com>
59) [131977] NorCal VXO Contest Entries
 by "Bob Tellefsen" <n6wg@earthlink.net>
60) [131978] Re: Clisby Vertical Milling Machine and Lathes
 by Thom LaCosta <baltimoremd@baltimoremd.com>
61) [131979] RE: It's Crystal Clear (first filter) (1,464 words)
 by Nick Kennedy <nkennedy@tcainternet.com>
62) [131980] Re: Coax shortened Dipole
 by "George, W5YR" <w5yr@att.net>
63) [131981] FS/giveaway: A (stale) year of QST
 by Jeff Dairiki <dairiki@dairiki.org>
64) [131982] Re: It's Crystal Clear (first filter) (1,464 words)
 by "Donald Dorn" <DDORN@cwis.net>
65) [131983] Re: DK9SQ mast repair question
 by "Mike WA8BXN" <hubby2k@hotmail.com>
66) [131984] Re: Coax shortened Dipole

 by "Karl F. Larsen" <k5di@zianet.com>
 67) [131985] Rock Mite Redux
 by "ss lyon" <sslyon@megalink.net>
 68) [131986] Re: Dipole >?<
 by Rick McKee <kc8aon@juno.com>
 69) [131987] Re: 'Mi-Te-Box update
 by Dan Tayloe <dtayloe@cox.net>
 70) [131988] OT Linux is power
 by "Karl F. Larsen" <k5di@zianet.com>
 71) [131989] RE: It's Crystal Clear (first filter) (1,464 words)
 by "Doug Hendricks" <ki6ds@dospalos.org>
 72) [131990] Re: HB: Portable Free-Standing Antenna Mast Frame
 by William R Colbert <w5xe@juno.com>
 73) [131991] Appalachian Trail Activation Sunday Morning, Aug. 11
 by "Ron Polityka" <wb3aal@fast.net>
 74) [131992] Re: Dipole >?<
 by Bruce Muscolino <w6toy@erols.com>
 75) [131993] How do I set up an inexpensive HF station?
 by "Peter A. Bonucci" <pbonucci@slonet.org>
 76) [131994] Re: 'Mi-Te-Box update
 by "Doug Hauff" <dhauff@digitalputty.com>
 77) [131995] OT - Quickcam software
 by Chris Cartwright <ccart@phideaux.com>
 78) [131996] We need an answer to our confusion...
 by "Bill, N4QA" <n4qa@hotmail.com>
 79) [131997] Re: 'Mi-Te-Box update
 by <bowerm@ix.netcom.com>
 80) [131998] Magazine Article?
 by "George, W5YR" <w5yr@att.net>
 81) [131999] SUNDAY'S ROCK NITE
 by Steven Weber <kd1jv@moose.ncia.net>
 82) [132000] RE: 'Mi-Te-Box update
 by Conrad Weiss <radman@best.com>
 83) [132001] Re: NorCal VXO Contest Entries
 by "Bob Tellefsen" <n6wg@earthlink.net>
 84) [132002] Re: How do I set up an inexpensive HF station?
 by "Karl F. Larsen" <k5di@zianet.com>
 85) [132003] Re: Got My Rock-Mite!!!!
 by Nelson Winter <thenels@go.com>

Date: Fri, 9 Aug 2002 15:57:07 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [131919] Rock Mite Enclosures!
Message-ID: <20020809225707.92583.qmail@web11603.mail.yahoo.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Doug - yes please! definitely.
I'd love an enclosure. I've already
ruined one Altoids tin. thanks,
Jim w1pid@arrl.net

Do You Yahoo!?
HotJobs - Search Thousands of New Jobs
http://www.hotjobs.com

Date: Fri, 9 Aug 2002 18:07:11 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131920] Re: End feeding a dipole
Message-ID: <009601c23ff9$7e00bf60$4e100a0a@rohredt2000>

Karl,
You may want to look at the J pole design site on the web, (google.com
search keyword "J Pole Antenna". Apparently when you get into the match,
(and he uses Smith Chart analysis, the stub is not exactly a quarterwave but
includes more length to effect the transformation and match. Very
interesting paper, but he does not give a final dimension for his tap point
for the feeder on the J pole stub!
73, Stuart K5KVH

Date: Fri, 10 Aug 2001 17:11:02 -0600
From: "Al Dawkins" <alk0frp@attbi.com>
To: <QRP-L@lehigh.edu>
Subject: [131921] lOG FOX K0FRP
Message-ID: <00c301c121f1$b98412c0$0500a8c0@homev3v5yzk21f>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

K0FRP FOX 8-8-2002

All My reports were 579 CO AL 5W

4 EL MONO 82 FT EAST

4 EL TRIBANDER ROTATABLE 35 FT MOSTY WEST

TS-850SAT TIMEWAVE 59+ DSP

K1EL K20 KEYBOARD KEYER

77 Q'S

2 VIRTUAL

34 SPC'S 30 STATES, 4 PROV, 4 DX

TOP STATES TX 8, FL AND LA 6, CA AND WI 5

6 QRPp FOUR 500MW AND 2 100 MW

0200	N1FN	599	CO	ET	5W
0200	N9NE	599	WI	TODD	100MW
0201	K3PH	579	PA	BOB	5W
0202	KB9YIG	589	IN	TONY	500MW
0202	KB7WW	559	OR	ART	5W
0203	K7IE	599	OR	CLAIR	5W
0204	K8HJ	579	MI	JOHN	5W
0204	K8CV	559	MI	WALT	5W

0205 K5EOA 559 LA WAYNE 5W

0206 NK6A 559 CA DON 5W

0206 K3IU 559 RI KEN 5W

0207 VE4WI 559 MB CRAIG 5W

0208 VA6RF 599 AB EARL 5W

0208 N5YFC 559 LA WAYNE 5W

0210 K4GT 599 GA JIM 5W

0210 K4FB 589 FL PAUL 5W

0211 N3BJ 579 VA ALAN 5W

0211 K4BYF 559 FL JACK 3W

0212 KJ4AY 559 AL JAY 4W

0213 N4ROA 579 VA DAN 5W

0214 K9IUA 599 IA KEVIN 5W

0214 NQ7X 559 AZ FLOYD 5W

0215 VE5RC 599 SK BRUCE 5W

0216 WE9K 599 WI GLENN 5W

0216 K4MF 579 FL GARY 5W

0217	K5WAF	589	TX	BILL	100W
0218	K3ESE	589	MD	LLOYD	5W
0219	N1TP	579	FL	TOM	5W
0220	KZ5J	599	TX	PAT	4W
0221	KG4LDY	559	VA	JIM	5W
0222	VE6JAZ	559	AB	ROB	5W
0223	K4BAI	579	GA	JOHN	5W
0224	N1WPU	579	ME	TED	5W
0295	WA2DGD	559	PA	LARRY	4W
0227	N4NJ	579	CO	JEFF	5W
0230	KU4NE	579	AL	JOHN	5W
0231	WA9TZE	559	WI	JIM	5W
0232	AA5O/4	579	FL	VERN	5W
0234	W9XU	559	WI	LON	5W
0235	NK9G	599	WI	RICK	5W
0235	N5IB	559	LA	JIM	5W

0238 WV9N 599 OH RANDY 5W

0239 K6MMC 579 CA MICH 5W

0240 NQ7T 559 WA GARY 500MW

0241 VE7HHH 579 BC BLAIR 5W

0242 AB9CA 559 AL DAVE 5W

0243 N3XRV 599 PA CHRIS 5W

0244 AA4LR 599 GA BILL 5W

0244 KI0RB 599 CO VINCE 5W

0246 KJ0C 579 MO JIM 5W

0249 W9HL 559 IL RANDY 5W

0251 WD5CMA 599 LA GLORIA 500MW

0253 AF4PS 579 FL MAC 3W

0256 KV2X 559 NY TOM 5W

0257 W4YN 599 NC TIM 5W

0258 N5FFF 559 LA WAYNE 5W

0300 K5LSU 579 LA MIKE 500MW

0304 N0HRL 559 MN KEN 5W

0313 K5TR 529 TX GEO 5W

0314 N0IT 569 MO DAVE 5W

0315 W4NJK 559 CA CHARLIE 5W

0317 N8NA 579 MI KARL 5W

0320 YO4BEW 579 ROM FANI 5W

0325 K0MPH 559 MN ROG 5W

0329 W5USJ 559 TX CHUCK 5W

0330 K7TQ 559 ID RANDY 100MW

0331 KD7CTF 559 OR LEE 5W

0332 W5YR 599 TX GEORGE 5W

0335 AL7FS 559 AK JIM 5W

0335 K5JHP 559 TX BILL 5W

0337 KG6CYN 559 CA TREV 5W

0338 K5SR 559 TX DALE 5W

0340 NM5M 559 TX ERNIE 5W

0342	RX3AP	559	RUSS	YURI
200W				
0341	UR5EG	559	UKR	VOLO
100W				
0344	KE6ZX	589	CA	PAT
5W				
0352	HA5DA	579	HUN	SZUCS
100W				

VIRTUAL N0UR MN JIM 5W

K0FRP CO AL 5W

Spc'S	HOW MANY
CO	3
WI	5
PA	3
IN	1
OR	3
MI	3
LA	6
CA	5
RI	1
MB	1

AB	2
GA	3
FL	6
VA	3
AL	4
IA	1
AZ	1
SK	1
TX	8
MD	1
ME	1
OH	1
WA	1
BC	1
MO	2
IL	1
NY	1
NC	1
MN	2
ROMANIA	1

ID 1

AR 1

RUSSIA 1

UKRAINE 1

HUNGARY 1

Date: Fri, 9 Aug 2002 19:35:32 -0400 (EDT)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@panix.com>
To: tracy@bytemark.com
Cc: qrp-l@lehigh.edu
Subject: [131922] Re: [131894] 222 converter?
Message-ID: <200208092335.g79NZWC00256@panix1.panix.com>

> Date: Fri, 9 Aug 2002 13:07:33 -0700
> From: "Tracy Markham" <tracy@bytemark.com>
>
> Anyone have a schematic for a minimalist 222 MHz converter? I want to run a
> 2m IF if possible, 6m is ok, would rather not do a 10m or 14 m converter ...

W1GHZ has information about a small one on his site, designed for use
with the FT-817. http://www.w1ghz.org/222xvtr/222.htm

He had a PC board available, but you have to locate the rest of the

parts yourself, from Mouser, DEM, and RF Parts.

It puts out about 5W, and uses 12M, not 2M, for the IF.

73, doug

Date: Fri, 9 Aug 2002 17:39:32 -0600
From: "Al Dawkins" <alk0frp@attbi.com>
To: <qrp-l@lehigh.edu>
Subject: [131923] K0FRP computer date
Message-ID: <000501c23ffe$03543ad0$0500a8c0@homev3v5yzk21f>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

not on purpose
Sorry about the wrong dates. My computer has failed twice since yesterday. It wants to go back to default Bios setting and then the date goes also. The CPU is a 1330 Mhz and will not adjust in bios . It defaults to 1000Mhz Everything else seems to be OK. but it will rebbot all by itself and reset itself to the original bios setting. I may have to flash the bios, but never done a flash before. Computers ????
I build them but still can't learn enough.
Al K0FRP

Date: Fri, 09 Aug 2002 17:54:52 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: <qrp-l@lehigh.edu>
Subject: [131924] 'nother Rock-mite spawned
Message-ID: <20020809235452.29928.qmail@uwdvg020.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Just finished enclosing the enclosure and look forward to some activity
tonight. Fired up right away and heard some Q's going on at the edge of =
the
bandpass (extremely faint though). Thank you, Dave Benson or whoever des=
igned
the Rock-mite for putting in the front-end filter. I have a hard time
building DC receivers here because of KOA (clear channel) just a few mile=
s

away. =

Will post some pics (using a Sescom box) when I polish and label it. Als=
o
interested in one of the Doug Hauff boxes for the second RM I purchased.

Paul KB0LUR

Date: Fri, 9 Aug 2002 18:12:11 -0600
From: "Al Dawkins" <alk0frp@attbi.com>
To: <qrp-l@lehigh.edu>
Subject: [131925] NA 10.56 logging program
Message-ID: <001501c24002$92edde90$0500a8c0@homev3v5yzk21f>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone out there tried to do a special template for a contest not included
in the list for NA contest logger.
I tried the TE.exe app. The fields can't be changed to use names in the
log. The fox and CQC use names in the exchange and I would like to get it
going and I am willing to share the templates for these contests once I find
out how to accomplish the change.
Any help ???

Al K0FRP

Date: Fri, 9 Aug 2002 18:40:39 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: <thenels@go.com>,
	"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131926] Re: UPDATED: the Rock-Mite files
Message-ID: <018e01c24006$8da2e6c0$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Nelson,

Yes the little blue square highlights a switch that controls the frequency and keyer.

73, Rod N0RC

----- Original Message -----
From: "Nelson Winter" <thenels@go.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, August 09, 2002 12:36 PM
Subject: Re: UPDATED: the Rock-Mite files

> Nice Site!
>
> One of the images on the site has a blue square box drawn around something poking through the case, but I can't make it out. Is it a switch of some sort?
>
> WB6DWD
> Nelson Winter

Date: Fri, 9 Aug 2002 19:12:19 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
 <sslyon@megalink.net>
Subject: [131927] 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
Message-ID: <01b601c2400a$f9e1a340$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Seab & Gang,

Gave up at 0110 nothing heard. Stayed 5min on ~7039, and 5min on ~7039.7.

Will try again at 0200

73, Rod N0RC

----- Original Message -----
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, August 09, 2002 7:21 AM
Subject: Rock-Mite: AAiMY & N0RC to attempt LD QSO

> Folks,
>
> Tonight Fri (US time zones) Seab and I will attempt to contact each
> other, Rock-Mite to Rock-Mite! "How far is it?",
> http://www.indo.com/distance/, put us 1758 miles (2830 km) apart. Our
> plan is to try calling each other on the hour at 9, 10, and 11 EDT,
(7,
> 8, 9 MDT/0100, 0200, 0300 UTC). Give a listen and see if we're
> successful! If you don't hear us QSO after about 5-10min, but do hear
> one of us, give a call for a quick QSO.
>
> 73, Rod N0RC
>
>
>
>

Date: Fri, 9 Aug 2002 21:24:28 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@lehigh.edu
Subject: [131928] Re: Dipole >?<
Message-ID: <20020809.213322.8910.1.kc8aon@juno.com>

OH HELL, WHO REALLY CARES AS LONG AS THE DAMN THING WORKS ! GET ON THE
AIR AND MAKE CONTACTS WITH IT AND MOVE ON TO SOMETHING
DIFFERENT.....

KC8AON

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Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
http://dl.www.juno.com/get/web/.

Date: Fri, 9 Aug 2002 21:27:00 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [131929] Mitey rocks, rocky mites, flea bites & tiny little thingies
Message-ID: <20020809.214022.-259705.3.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

My son was looking for Beavis & Butt-Head in Russian and came across this stuff instead:

http://www.boydhouse.com/crystalradio/plans/index.html

>From which we got to a jpg of a page from a magazine called Inventions (August 1936, pg 109) in a column called "Radio Sparks." The bit was "A matchbox radio that actually works." You can find it via the link just above. 70 turns of #34 wire gets shorted by a slider glued into the inside of the matchbox cover. Tune it by slidin' the drawer inside and out. Bet the #34 wire don't last long that way.

Interesting deal, all the same. Especially since you can get one for 9.57 Pounds Sterling from

http://www.mutr.co.uk/Radios/Radios_Matcbox.htm

Of course, that got me to rememberin' stuff like that little radio in the long-back Ham Radio magazine what I got hooked on QRP some other time with. And then I remembered . . . Dave Benson, that ol' divvel . . .

I ordered one of them Rock Mites 'cause I thought it looked like just the thing to cram into another piece of aluminum or something that I might find some day cleanin' out the outhouse where the cats have taken up residence or squatters rights or whatever. Then, after I chunked the envelope in the mail & thus absolved myself of any karma that might be involved with me tryin' to build something again, I thought "Heck, I should had otter sent for two of 'em so I can give 'em to Frank and let him build 'em both & then let him keep on of 'em too."

Then I spent $78 on one of the cats -- we started out callin' him Smokey 'cause he's grey & nondescript but now we call him Gummo 'cause he's got peridontal disease & gingivitus. Which means that after we get him antibiotiqued up real good so his gums ain't flame red, he's gonna get knocked out & undergo -- no joke, the vet does these all the time -- a

root planing. A cat. Gettin' his roots planed or whatever they do when they get that crap out betwixt yer teeth & gums that you should've flossed more regular for anyway.

On a cat.

And then I discovered that my SEC1225 switcher power supply puts out a real nice solid signal on 455 kHz. Guess I better figure out what's wrong with the PS7.

Yeah, a cat.

73

Nils

Nils R. Bull Young -- W8IJN -- La Estancia de los Guajolotes Sonrientes
http://w8ijn.tripod.com -- http://members.fortunecity.com/nilsbull
"The island is closer than your memories are." -- Ian G. Bull Young, 15 Feb 2002

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Date: Fri, 9 Aug 2002 21:44:48 -0400
From: "Kevin M., KC8SFJ" <adverseyaw@twmi.rr.com>
To: <rod@n0rc.us>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131930] Re: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
Message-ID: <001001c2400f$837efd60$45f5d018@magnus>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I will be looking for you with my 2N2/40.
73/72,
Kevin, KC8SFJ
----- Original Message -----
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, August 09, 2002 9:12 PM
Subject: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO

Seab & Gang,

Gave up at 0110 nothing heard. Stayed 5min on ~7039, and 5min on
~7039.7.

Will try again at 0200

73, Rod N0RC

----- Original Message -----
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, August 09, 2002 7:21 AM
Subject: Rock-Mite: AAiMY & N0RC to attempt LD QSO

> Folks,
>
> Tonight Fri (US time zones) Seab and I will attempt to contact each
> other, Rock-Mite to Rock-Mite! "How far is it?",
> http://www.indo.com/distance/, put us 1758 miles (2830 km) apart. Our
> plan is to try calling each other on the hour at 9, 10, and 11 EDT,
(7,
> 8, 9 MDT/0100, 0200, 0300 UTC). Give a listen and see if we're
> successful! If you don't hear us QSO after about 5-10min, but do hear
> one of us, give a call for a quick QSO.
>
> 73, Rod N0RC
>
>
>
>

Date: Fri, 9 Aug 2002 21:54:22 -0400
From: "ss lyon" <sslyon@megalink.net>
To: <rod@n0rc.us>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131931] Re: 0100 try Re: Rock-Mite: AA1MY & N0RC
Message-ID: <011101c24010$d9418780$aac7e742@megalink.net>

MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

WHAT HAPPENED TO THE BAND! I'm hearing wall-to-wall QRO CONTEST guys pounding the front end!!!

Got on late due to usual impacts on field outings. I'm operating battery powered, (~400mW) 270' up in the woods directly under my new Folded Dipole, which I thought might buy the Mite a bit of RX help. I'm hearing much better, with NO sw BC detected, so if we get a break, I'll have a chance to work some QRP-ers. I'll stick to the sched, on the hr, starting low, then going hi.
Keep and ear open for us!
Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm
----- Original Message -----
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, August 09, 2002 9:12 PM
Subject: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO

> Seab & Gang,
>
> Gave up at 0110 nothing heard. Stayed 5min on ~7039, and 5min on
> ~7039.7.
>
> Will try again at 0200
>
> 73, Rod N0RC
>
> ----- Original Message -----
> From: "Rod N0RC" <rod@n0rc.us>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Friday, August 09, 2002 7:21 AM
> Subject: Rock-Mite: AAiMY & N0RC to attempt LD QSO
>
>
> > Folks,
> >
> > Tonight Fri (US time zones) Seab and I will attempt to contact each
> > other, Rock-Mite to Rock-Mite! "How far is it?",
> > http://www.indo.com/distance/, put us 1758 miles (2830 km) apart. Our

> > plan is to try calling each other on the hour at 9, 10, and 11 EDT,
> (7,
> > 8, 9 MDT/0100, 0200, 0300 UTC). Give a listen and see if we're
> > successful! If you don't hear us QSO after about 5-10min, but do hear
> > one of us, give a call for a quick QSO.
> >
> > 73, Rod N0RC
> >
> >
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> >
>
>
>

Date: Fri, 9 Aug 2002 20:11:34 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
 <sslyon@megalink.net>
Subject: [131932] Re: 0200 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
Message-ID: <01d601c24013$412ade80$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

YUK! there is a contest going on, we choose poorly for a day to try! ;-)

I think it is the MD QSO party. Should we bag it and try another day?

If I don't hear from you by email, I will try again at 0300.

73, Rod N0RC

----- Original Message -----
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, August 09, 2002 7:12 PM
Subject: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO

> Seab & Gang,
>
> Gave up at 0110 nothing heard. Stayed 5min on ~7039, and 5min on
> ~7039.7.

>
> Will try again at 0200
>
> 73, Rod N0RC
>
> ----- Original Message -----
> From: "Rod N0RC" <rod@n0rc.us>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Friday, August 09, 2002 7:21 AM
> Subject: Rock-Mite: AAiMY & N0RC to attempt LD QSO
>
>
> > Folks,
> >
> > Tonight Fri (US time zones) Seab and I will attempt to contact each
> > other, Rock-Mite to Rock-Mite! "How far is it?",
> > http://www.indo.com/distance/, put us 1758 miles (2830 km) apart.
Our
> > plan is to try calling each other on the hour at 9, 10, and 11 EDT,
> (7,
> > 8, 9 MDT/0100, 0200, 0300 UTC). Give a listen and see if we're
> > successful! If you don't hear us QSO after about 5-10min, but do
hear
> > one of us, give a call for a quick QSO.
> >
> > 73, Rod N0RC
> >
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>

Date: Fri, 09 Aug 2002 22:16:20 -0400
From: Hank Kohl K8DD <k8dd@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131933] Re: 0100 try Re: Rock-Mite: AA1MY & N0RC
Message-ID: <5.1.0.14.2.20020809221602.023dd8b0@mail.arenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

It's the Worked All Europe CW contest this weekend.

At 8/9/02 09:54 PM -0400, ss lyon wrote:
>WHAT HAPPENED TO THE BAND! I'm hearing wall-to-wall QRO CONTEST guys pounding
>the front end!!!
>
>Got on late due to usual impacts on field outings. I'm operating battery
>powered, (~400mW) 270' up in the woods directly under my new Folded Dipole,
>which I thought might buy the Mite a bit of RX help. I'm hearing much
>better,
>with NO sw BC detected, so if we get a break, I'll have a chance to work some
>QRP-ers. I'll stick to the sched, on the hr, starting low, then going hi.
>Keep and ear open for us!
>Seabury & Sharon Lyon
>99 Sparrowhawk Mtn Rd
>Bethel ME, 04217 U.S.A.
>207-836-2576
>
>Virus Protection by Norton and ZoneAlarm
>----- Original Message -----
>From: "Rod N0RC" <rod@n0rc.us>
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Sent: Friday, August 09, 2002 9:12 PM
>Subject: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
>
>
> > Seab & Gang,
> >
> > Gave up at 0110 nothing heard. Stayed 5min on ~7039, and 5min on
> > ~7039.7.
> >
> > Will try again at 0200
> >
> > 73, Rod N0RC
> >
> > ----- Original Message -----
> > From: "Rod N0RC" <rod@n0rc.us>
> > To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> > Sent: Friday, August 09, 2002 7:21 AM
> > Subject: Rock-Mite: AAiMY & N0RC to attempt LD QSO
> >
> >
> > > Folks,
> > >
> > > Tonight Fri (US time zones) Seab and I will attempt to contact each
> > > other, Rock-Mite to Rock-Mite! "How far is it?",

> > > http://www.indo.com/distance/, put us 1758 miles (2830 km) apart. Our
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> > (7,
> > > 8, 9 MDT/0100, 0200, 0300 UTC). Give a listen and see if we're
> > > successful! If you don't hear us QSO after about 5-10min, but do hear
> > > one of us, give a call for a quick QSO.
> > >
> > > 73, Rod N0RC
> > >
> > >
> > >
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> >

*/ Hank Kohl K8DD k8dd@arrl.net
*/ ARRL TS http://www.qsl.net/k8dd
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/
If God intended you to be on single sideband, he would have given you only
one nostril.
- Steve, K2PTS

Date: Fri, 9 Aug 2002 22:30:37 -0400
From: "ss lyon" <sslyon@megalink.net>
To: "Rod N0RC" <rod@n0rc.us>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131934] Rock Mite vs Work All Europe....
Message-ID: <013101c24015$e9976820$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well That was interesting! Worked Dave, NF0R and VE3... (sorry log is up in the
woods) with nice sigs. Just squeaked thru between QRO blasts.

Getting my exercise trotting back and forth so I'll be hanging in up there in
the tent rather than just looking in on the hr, so give a look, ja? CU there...
between the DL's, IK's ... bla bla
72
Seab & Rocky

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
N 44.3890 - W 70.8450
FN44nj aa1my@arrl.net

Date: Fri, 09 Aug 2002 20:38:57 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-l@lehigh.edu>, <ki6ds@dph.dpol.net>
Subject: [131935] Re: Totally Off topic Query About Something I saw on the East Coast
Message-ID: <B979D8E0.1B12C%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Doug - This sounds like a variation on the children's Hannukah game Dreidle (pronounced DRAY Dull). The dreidle is a 4 sided top with Hebrew characters on each side indicateing put all, take all, put, take. There is een a song about it.

When Barbara was in preschool she had a good friend whose family celebrated every religous holiday and every practiced every religous rite; Christian, Jewish, Hindu, Buddhist, Druids, Unitarian, you name it they did it.

Anyway, one Hannakuh she came home with a dreidle after preschool. Ginger and I had never seen one before. A conversation that you could only have with a 3 year old followed.

"Whats that?"

"A Dreidle"

"What do you use it for?"

"To play Dreidle"

"What's Dreidle?"

"A game"

How do you play it?"

"With a Dreidle"

"No, I mean what are the rules?"

"You spin the dreidle and sometimes you get candy, and sometimes someone else gets the candy, and when you get the candy, you eat the candy."

Intrigued, I asked some of my Judaic friends at work about the Dreidle. There was a wide variation in rules, mostly designed to shield young children from gambling. The candy is "Gelt", those foil covered discs embossed to look like coins.

Boy, there must be a great anthropology thesis in how a children's Hannakuh game gets transformed into a Biker's game of chance. - Dr. Megacycle KK6MC/5

--
James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Fri, 9 Aug 2002 20:40:03 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Stuart Rohre <rohre@arlut.utexas.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131936] Re: End feeding a dipole
Message-ID: <Pine.LNX.4.44.0208092030350.1771-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Stuart, Always the problem with a J pole is how to connect to the 1/4 wave matching section. 30 years ago we worked up this method for 2 meters:

1. Make a 4 to one coax balun ala the old ARRL Antenna Book.

2. Mount the J pole where you plan to use it and then with 2 meter radio making a 10 watt carrier passing thru a SWR Bridge move the 200 ohm output from the balun up and down the 1/4 wave section until you get exactly an SWR of 1:1. Solder the balun to that point and attch it to the antenna with plastic ties.

If I was going to do it today I would use my MFJ Antenna Analyser and find the right spot in 20 seconds.

You really don't need a Smith Chart to understand a J pole. It is exactly a 1/4 wave matching section hard wired to a 1/2 wave antenna.

On Fri, 9 Aug 2002, Stuart Rohre wrote:

> Karl,
> You may want to look at the J pole design site on the web, (google.com
> search keyword "J Pole Antenna". Apparently when you get into the match,
> (and he uses Smith Chart analysis, the stub is not exactly a quarterwave but
> includes more length to effect the transformation and match. Very
> interesting paper, but he does not give a final dimension for his tap point
> for the feeder on the J pole stub!
> 73, Stuart K5KVH
>
>
>

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Fri, 9 Aug 2002 22:42:22 -0400
From: "Howard Kraus" <K2UD@adelphia.net>
To: <K8GZ@cs.com>
Cc: <qrp-l@lehigh.edu>
Subject: [131937] My regen rcvr./ Was that your Rock-mite?
Message-ID: <001b01c24017$8e466a00$07633018@buf.adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK, more than a few requests for this one, so I'll go public.

The regen I checked out last night is "A Three Transistor Receiver" by
Walter F. Lange, W1YDS. It showed in Mar 68 QST and in the 27th edition of
"How to Become a Radio Amateur."

This uses a 2N5458 N-channel JFET for the detector, and two stages of 2N3860
audio. The circuit allows for use of plug-in band coils (with bandspread
capacitors built into the coil forms), battery operated, typical
bandset/bandset tuning and coarse/fine reaction controls.

The short story is that it provides a stable and sensitive receiver, has
incredibly smooth reaction control, more than ample audio (for 2000 ohm
phones), operates from 1.6 to 30MHz (have only tried 7-10MHz so far), will

operate forever with its 6 "D" cells, and with its BC band filter shuts out all local AM BC signals. Otherwise it exhibits all the quirks/nuances that you can expect or have heard about from a regen. I love it! This is real radio.

The sensitivity is such that I heard AA1MY calling CQ from his Rock-mite from 400-500 miles distant, about RST 459. This was using simply an 18' hank of wire laying on the kitchen floor. I also heard PP7AL from Brazil while he was working a local. Removing the same 18' wire allowed me to hear strong stations quite clearly. That's right, no antenna!

Getting this rcvr working has been a real kick. It's the first project I ever saw in any ham publication when I first got interested in the hobby. Took nearly 30 years to actually build it! A personal triumph to be sure, my first regen certainly, but above all it's (another) device I've made with these hands that allows me to hear another likeminded person utter some type of intelligence from far away. That's as good as it gets guys!

Though many of the parts are difficult (damn near impossible) to find these days, it's the type of project I would recommend to anyone who enjoys hearing the sweet sound of ham, be it CW or phone, using something that they've crafted with their own hands.

For me, it was very retro, very enjoyable and taught me a few more things about radio (that's why we build, right?). A winning circuit that you won't regret building.

72 all

Howard Kraus, K2UD----- Original Message -----
From: <K8GZ@cs.com>
To: <K2UD@adelphia.net>
Sent: Friday, August 09, 2002 9:37 PM
Subject: Re:AA1MY,wasthatyourRock-mitelastnight?

> Come on. You must tell us about your regen receiver
> that picks up these QRPp signals.
> 72,
> Kaye Hartman, K8GZ Lancaster, OH

Date: Fri, 9 Aug 2002 19:52:19 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>
Cc: "Steven Weber" <kd1jv@moose.ncia.net>

Subject: [131938] Re: NH AT, SATURDAY
Message-ID: <018001c24018$f547a060$1fa3ad40@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Steve, don't forget your conjugate match, grin. Have fun. 72, doug

Date: Fri, 9 Aug 2002 20:56:43 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Al Dawkins <alk0frp@attbi.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131939] Re: lOG FOX K0FRP
Message-ID: <Pine.LNX.4.44.0208092051000.1771-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Al, your formating of the log failed...:-) nothing new. I noticed you
worked zero New Mexico stations. Next time let's set a 15 minute time
when you point your beam South. You were 229 for 30 minutes last night
and I just know if you moved your beam and pointed at my beam we would
have been 559 both ways.

You did work 8 Texan's that were just enough further away and in far
east Texas I bet.

On Fri, 10 Aug 2001, Al Dawkins wrote:

>
>
> K0FRP FOX 8-8-2002
>
> All My reports were 579 CO AL 5W
>
> 4 EL MONO 82 FT EAST
>
> 4 EL TRIBANDER ROTATABLE 35 FT MOSTY WEST
>
> TS-850SAT TIMEWAVE 59+ DSP
>
> K1EL K20 KEYBOARD KEYER
>
>

>
> 77 Q'S
>
> 2 VIRTUAL
>
> 34 SPC'S 30 STATES, 4 PROV, 4 DX
>
> TOP STATES TX 8, FL AND LA 6, CA AND WI 5
>
> 6 QRPp FOUR 500MW AND 2 100 MW
>
>
>
>
>
>
>
> 0200 N1FN 599 CO ET
> 5W
>
> 0200 N9NE 599 WI TODD
> 100MW
>
> 0201 K3PH 579 PA BOB 5W
>
> 0202 KB9YIG 589 IN TONY 500MW
>
> 0202 KB7WW 559 OR ART 5W
>
>
>
> 0203 K7IE 599 OR CLAIR
> 5W
>
> 0204 K8HJ 579 MI JOHN 5W
>
> 0204 K8CV 559 MI WALT 5W
>
> 0205 K5EOA 559 LA WAYNE 5W
>
> 0206 NK6A 559 CA DON 5W
>
>
>
> 0206 K3IU 559 RI KEN
> 5W
>
> 0207 VE4WI 559 MB CRAIG 5W

>
> 0208 VA6RF 599 AB EARL 5W
>
> 0208 N5YFC 559 LA WAYNE 5W
>
> 0210 K4GT 599 GA JIM
> 5W
>
>
>
> 0210 K4FB 589 FL PAUL 5W
>
> 0211 N3BJ 579 VA ALAN 5W
>
> 0211 K4BYF 559 FL JACK
> 3W
>
> 0212 KJ4AY 559 AL JAY 4W
>
> 0213 N4ROA 579 VA DAN
> 5W
>
>
>
> 0214 K9IUA 599 IA KEVIN
> 5W
>
> 0214 NQ7X 559 AZ FLOYD 5W
>
> 0215 VE5RC 599 SK BRUCE 5W
>
> 0216 WE9K 599 WI GLENN 5W
>
> 0216 K4MF 579 FL GARY 5W
>
>
>
> 0217 K5WAF 589 TX BILL
> 100W
>
> 0218 K3ESE 589 MD LLOYD 5W
>
> 0219 N1TP 579 FL TOM 5W
>
> 0220 KZ5J 599 TX PAT
> 4W
>
> 0221 KG4LDY 559 VA JIM

> 5W
>
>
>
> 0222 VE6JAZ 559 AB ROB
> 5W
>
> 0223 K4BAI 579 GA JOHN 5W
>
> 0224 N1WPU 579 ME TED
> 5W
>
> 0295 WA2DGD 559 PA LARRY 4W
>
> 0227 N4NJ 579 CO JEFF
> 5W
>
>
>
> 0230 KU4NE 579 AL JOHN
> 5W
>
> 0231 WA9TZE 559 WI JIM
> 5W
>
> 0232 AA5O/4 579 FL VERN
> 5W
>
> 0234 W9XU 559 WI LON 5W
>
> 0235 NK9G 599 WI RICK 5W
>
>
>
> 0235 N5IB 559 LA JIM
> 5W
>
> 0238 WV9N 599 OH RANDY 5W
>
> 0239 K6MMC 579 CA MICH
> 5W
>
> 0240 NQ7T 559 WA GARY
> 500MW
>
> 0241 VE7HHH 579 BC BLAIR
> 5W
>

>
>
> 0242 AB9CA 559 AL DAVE
> 5W
>
> 0243 N3XRV 599 PA CHRIS
> 5W
>
> 0244 AA4LR 599 GA BILL
> 5W
>
> 0244 KI0RB 599 CO VINCE 5W
>
> 0246 KJ0C 579 MO JIM
> 5W
>
>
>
> 0249 W9HL 559 IL RANDY 5W
>
> 0251 WD5CMA 599 LA GLORIA
> 500MW
>
> 0253 AF4PS 579 FL MAC 3W
>
> 0256 KV2X 559 NY TOM 5W
>
> 0257 W4YN 599 NC TIM 5W
>
>
>
> 0258 N5FFF 559 LA WAYNE
> 5W
>
> 0300 K5LSU 579 LA MIKE
> 500MW
>
> 0304 N0HRL 559 MN KEN
> 5W
>
> 0313 K5TR 529 TX GEO 5W
>
> 0314 N0IT 569 MO DAVE
> 5W
>
>
>
> 0315 W4NJK 559 CA CHARLIE 5W

>
> 0317 N8NA 579 MI KARL 5W
>
> 0320 YO4BEW 579 ROM FANI
> 5W
>
> 0325 K0MPH 559 MN ROG
> 5W
>
> 0329 W5USJ 559 TX CHUCK
> 5W
>
>
>
> 0330 K7TQ 559 ID RANDY
> 100MW
>
> 0331 KD7CTF 559 OR LEE
> 5W
>
> 0332 W5YR 599 TX GEORGE 5W
>
> 0335 AL7FS 559 AK JIM
> 5W
>
> 0335 K5JHP 559 TX BILL
> 5W
>
>
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> 0337 KG6CYN 559 CA TREV 5
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> 0338 K5SR 559 TX DALE 5W
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> 0340 NM5M 559 TX ERNIE 5W
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> 0342 RX3AP 559 RUSS YURI
> 200W
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> 0341 UR5EG 559 UKR VOLO
> 100W
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> 0344 KE6ZX 589 CA PAT
> 5W
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> 0352 HA5DA 579 HUN SZUCS
> 100W
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> VIRTUAL N0UR MN JIM 5W
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> K0FRP CO AL 5W
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Yours Truly,

 - Karl F. Larsen, (505) 524-3303 -

Date: Fri, 9 Aug 2002 22:08:53 -0500
From: Edgar R Guillot <n5ed@juno.com>
To: nielsen@oz.net
Cc: qrp-l@lehigh.edu
Subject: [131940] Re: [CQCLIST] Altoids tins available
Message-ID: <20020809.220853.400.0.N5ED@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have a pile of Altoid tablets so high that Code Enforcement is getting
after me!

N5Ed Guillot
Kenner, LA
near New Orleans

GET INTERNET ACCESS FROM JUNO!
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http://dl.www.juno.com/get/web/.

Date: Fri, 09 Aug 2002 22:11:22 -0500
From: Monty N5FC <n5fc@io.com>
To: AQRP@egroups.com, qrp-l@lehigh.edu
Cc: ausfredericks@yahoo.com, k5rdj@juno.com
Subject: [131941] HB: Portable Free-Standing Antenna Mast Frame
Message-ID: <5.1.0.14.1.20020809220620.01f95080@mail.io.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hey Gang!

Ever wish for a quick-setup, tote-able, rugged yet lightweight,
free-standing frame to support your DK9SQ, MFJ, or similar portable antenna
mast?

Here's a build-it-yourself-from-scratch project that really does the trick
for me:

http://www.io.com/~n5fc/ant_frame.html

Those of you in the Austin QRP Club will get a gander at it tomorrow morning.

72,
monty N5FC

Monty Northrup, N5FC
Austin, Texas
e-mail: n5fc@io.com
web page (ham radio): http://www.io.com/~n5fc
web page (home): http://www.io.com/~maddog

Date: Fri, 9 Aug 2002 21:16:37 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>,
 <sslyon@megalink.net>
Subject: [131942] Re: 0300 try UNCLE! Re: Rock-Mite: AA1MY & N0RC to attempt LD
QSO
Message-ID: <01fc01c2401c$57065550$6501a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

More YUK, Bigger YUK! Got RF kicked in my face that time, both RM frequencies jammed with QRO sigs. I did here WA6LTV call me a few times at 0310, called back but wasn't heard. OH WELL! Better luck next time.

73, Rod N0RC
----- Original Message -----
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, August 09, 2002 8:11 PM
Subject: Re: 0200 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO

> YUK! there is a contest going on, we choose poorly for a day to try!
;-)
>
> I think it is the MD QSO party. Should we bag it and try another day?
>
> If I don't hear from you by email, I will try again at 0300.
>
> 73, Rod N0RC
>
> ----- Original Message -----
> From: "Rod N0RC" <rod@n0rc.us>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Friday, August 09, 2002 7:12 PM
> Subject: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
>
>
> > Seab & Gang,
> >
> > Gave up at 0110 nothing heard. Stayed 5min on ~7039, and 5min on
> > ~7039.7.
> >
> > Will try again at 0200
> >
> > 73, Rod N0RC
> >
> > ----- Original Message -----
> > From: "Rod N0RC" <rod@n0rc.us>
> > To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> > Sent: Friday, August 09, 2002 7:21 AM
> > Subject: Rock-Mite: AAiMY & N0RC to attempt LD QSO
> >
> >
> > > Folks,
> > >
> > > Tonight Fri (US time zones) Seab and I will attempt to contact

each
> > > other, Rock-Mite to Rock-Mite! "How far is it?",
> > > http://www.indo.com/distance/, put us 1758 miles (2830 km) apart.
> Our
> > > plan is to try calling each other on the hour at 9, 10, and 11
EDT,
> > (7,
> > > 8, 9 MDT/0100, 0200, 0300 UTC). Give a listen and see if we're
> > > successful! If you don't hear us QSO after about 5-10min, but do
> hear
> > > one of us, give a call for a quick QSO.
> > >
> > > 73, Rod N0RC
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Date: Fri, 09 Aug 2002 22:25:19 -0500
From: Bob Liesenfeld <wb0poq@visi.com>
To: K2UD@adelphia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131943] Re: My regen rcvr./ Was that your Rock-mite?
Message-ID: <3D54879F.CEFD6A87@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Howard Kraus wrote:

> OK, more than a few requests for this one, so I'll go public.
>
> The regen I checked out last night is "A Three Transistor Receiver" by

> Walter F. Lange, W1YDS. It showed in Mar 68 QST and in the 27th edition of
> "How to Become a Radio Amateur."

Cool! Could you post a schematic?

Bob L. WB0POQ

Date: Fri, 09 Aug 2002 22:23:43 -0500
From: David Gauding <david.gauding@bbs.galilei.com>
To: qrp-l@lehigh.edu
Subject: [131944] 0329Z - AA1MY Rock-Mite Spotted!
Message-ID: <5.1.1.6.0.20020809211205.00a351b0@bbs.galilei.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Howdy,

AA1MY calling CQ at 0329Z - no takers!

Worked AA1MY, Seab in ME at 0212Z on 3.039.8 (and again at 0322Z) using 5W
to a SLX portable vertical. He can not hear me calling at 1W! 229 and 339
to Seab respectively.

A busy band - some kind of contest ongoing.

de Dave, NF0R nf0r@slacc.com

Date: Fri, 09 Aug 2002 21:32:27 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131945] Re: [Re: 0300 try UNCLE! Re: Rock-Mite: AA1MY & N0RC to attempt
LD
 QSO]
Message-ID: <20020810033227.25540.qmail@uadvg137.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Heard you and WA6LTV and much contest activity. Also, unfortunately, KOA=
 is

breaking through but the level is manageable. Looks like Sunday night wi=
ll be
the better time - if I'm not mistaken, EU contest runs through Sunday
afternoon.

Paul KB0LUR

"Rod N0RC" <rod@n0rc.us> wrote:
> More YUK, Bigger YUK! Got RF kicked in my face that time, both RM
> frequencies jammed with QRO sigs. I did here WA6LTV call me a few times=

> at 0310, called back but wasn't heard. OH WELL! Better luck next time.
> =

> 73, Rod N0RC
> ----- Original Message -----
> From: "Rod N0RC" <rod@n0rc.us>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Friday, August 09, 2002 8:11 PM
> Subject: Re: 0200 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
> =

> =

> > YUK! there is a contest going on, we choose poorly for a day to try!
> ;-)
> >
> > I think it is the MD QSO party. Should we bag it and try another day?=

> >
> > If I don't hear from you by email, I will try again at 0300.
> >
> > 73, Rod N0RC
> >
> > ----- Original Message -----
> > From: "Rod N0RC" <rod@n0rc.us>
> > To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> > Sent: Friday, August 09, 2002 7:12 PM
> > Subject: 0100 try Re: Rock-Mite: AA1MY & N0RC to attempt LD QSO
> >
> >
> > > Seab & Gang,
> > >
> > > Gave up at 0110 nothing heard. Stayed 5min on ~7039, and 5min on
> > > ~7039.7.
> > >
> > > Will try again at 0200
> > >

> > > 73, Rod N0RC
> > >
> > > ----- Original Message -----
> > > From: "Rod N0RC" <rod@n0rc.us>
> > > To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> > > Sent: Friday, August 09, 2002 7:21 AM
> > > Subject: Rock-Mite: AAiMY & N0RC to attempt LD QSO
> > >
> > >
> > > > Folks,
> > > >
> > > > Tonight Fri (US time zones) Seab and I will attempt to contact
> each
> > > > other, Rock-Mite to Rock-Mite! "How far is it?",
> > > > http://www.indo.com/distance/, put us 1758 miles (2830 km) apart.=

> > Our
> > > > plan is to try calling each other on the hour at 9, 10, and 11
> EDT,
> > > > (7,
> > > > 8, 9 MDT/0100, 0200, 0300 UTC). Give a listen and see if we're
> > > > successful! If you don't hear us QSO after about 5-10min, but do
> > hear
> > > > one of us, give a call for a quick QSO.
> > > >
> > > > 73, Rod N0RC
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Date: Fri, 9 Aug 2002 20:48:25 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [131946] Frank Roberts Email address???
Message-ID: <018f01c24020$c9d955b0$1fa3ad40@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry for the bandwidth, but I need Frank Roberts, VE3FAO email address. If anyone has it please send to me. Thankyou, 72, Doug

Date: Sat, 10 Aug 2002 00:08:13 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: "NoVAQRP" <NoVaQRP@topica.com>, "NJQRP" <njqrp@njqrp.org>,
	"QRP-L" <qrp-l@lehigh.edu>,
Subject: [131947] Ordering stuff from the NJQRP
Message-ID: <010a01c24023$8ff77ef0$47c23ad0@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Folks -

This is a note describing important changes for ordering NJQRP goods and services.

Over the last six years, the NJQRP Club projects and kitting activities have grown from a virtual ground-zero start (see PS note at end), to today having 13 unique and QRP-related items for sale on our club website! Kits like the Precision VXO, SOP Receiver, Badger SmartBadge, Low Power Balun, Islander Pad Cutter, PSK80 Warbler, PSK31 Audio Beacon, QRP Homebrewer Magazine, a very active website and e-mail reflector, and the annual Atlanticon QRP Forum, are all products of the dedication of your friends in the NJQRP.

However too, this has all grown to be a fairly big endeavor and an always-present commitment for those volunteers within the club doing the designing, parts ordering, kitting, order processing, mailing, event organizing and technical support. We do our best at making these products and services available to QRPers everywhere at the lowest possible prices, but we're also looking for ways to improve our operations _and_ keep things

in perspective for our volunteers providing those products.

To that end, we are very pleased to announce that DAVE PORTER, AA3UR has agreed to step up his already-active role in the club and now be responsible for all NJQRP club logistics, ordering and kitting operations. Over the last year, Dave has been playing an ever-increasing role behind the scenes helping to organize the club in more efficient ways and spread the kitting workload across various teams of volunteers. He also played a pivotal role in organizing and running our Atlanticon QRP weekend this past April, and will be doing so again going forward.

>>>> EFFECTIVE IMMEDIATELY <<<< ALL ORDERS FOR NJQRP GOODS & SERVICES GO TO "DAVE PORTER, AA3UR". This includes orders for all kits, QRP Homebrewer subscriptions & inquiries, and Atlanticon reservations. These orders can now be made electronically through PayPal (send funds to njqrp-kits@comcast.net) or by writing check or Money Order to "Dave Porter, NJQRP" and sending to:

Dave Porter, AA3UR
647 Middle Holland Rd
Holland, PA 18966

Both N2APB & N2CX will continue to play leading roles within the club, but thanks to AA3UR and his group of 6 kitting captains we'll also have more of our own volunteer time to devote to technical support and guidance, new designs, publishing technical articles in QHB, QQ, QRPp, SPRAT, websites, and speaking at various events throughout the year. We'll also be standing right beside Dave in helping to make the transition smooth and support the newer ideas and operations coming along in the near future.

We are introducing several very exciting new kits in the near future -- and thanks to the encouragement and support of QRPers everywhere, the NJQRP is happily continuing doing its best to provide these fun kits, publications and events for everyone to take advantage of at rock bottom prices. We thank everyone for that support!

72/73,
George Heron, N2APB, n2apb@amsat.org
and
Joe Everhart, N2CX, n2cx@voicenet.com
for the
NJQRP Club at http://www.njqrp.org

PS: At the start of this note we mention that the NJQRP had a virtual ground-zero start to our kitting activities. The "virtual" part of it comes from a little-known fact that our very good friend KI6DS and the NorCal QRP Club were instrumental in helping us accomplish our first kitting project. We continue to be sincerely thankful for that push-start and we dearly value the continuing "sibling relationship" we have with our west coast based

counterparts. Thank you Doug. What a great hobby this QRP is!

Date: Fri, 09 Aug 2002 23:21:20 -0500
From: "George, W5YR" <w5yr@att.net>
To: "qrp-l@Lehigh.edu" <qrp-l@lehigh.edu>, elecraft@mailman.qth.net,
 DigRadNet@mailman.qth.net, icom@mailman.qth.net,
Subject: [131948] Magazine Article?
Message-ID: <3D5494C0.62C6256B@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I wonder if someone would be so kind as to scan or copy pages 13 through 17 of the January 1995 issue of CQ magazine and either mail or email them to me?

If snailmail, I will give you my address privately.

Thanks much, folks!

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Date: Sat, 10 Aug 2002 00:23:14 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: "Brice D. Hornback" <bdh@cyberbound.net>
Cc: RANDALLR@healthall.com,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131949] Re: Clisby Vertical Milling Machine and Lathes
Message-ID: <20020810001929.Q43277-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 9 Aug 2002, Brice D. Hornback wrote:

> Clisby Miniature Machines
> http://www.cyberbound.net/clisby
>
> Remember folks... the Internet is case sensitive.

>
> 73/72/71! de Brice KA8MAV
>

> > If you would like to know more, check out the Web site of Brice
> > Hornback,
> >
> > KA8MAV, <bdh@cyberbound.com> The U.S. Authorized Dealer/ Distributor.
> >
> > <http://www.Cyberbound.net/Clisby>

O.K., I plead GUILTY. :^}

Don't forget to sign up for the Clisby Group on Yahoo!

Ask Brice for the Details...

Only one mistake per week allowed. :^}

QRPp Dx Tu, (C) 2002 K3TKS

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and CURRENT Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems, Handyman Services,
Commercial & Residential Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1,
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

 Collector of Quartz Crystals and Telegraph Keys.

Maryland Milliwatt Club QRP Reference Library, & I.Q.S.F. Donations Accepted.

 RU-QRP? Club Representative, U.S. Treasurer & Founder of I.Q.S.F.

 Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

 "72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Sat, 10 Aug 2002 00:32:39 -0400
From: "ss lyon" <sslyon@megalink.net>

To: "chat qrp" <qrp-l@lehigh.edu>
Subject: [131950] ROCK MITE - AA1MY Report
Message-ID: <01c701c24026$f6350540$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I gave up around 11:45PM Eastern with ears ringing from EU QRO. KD1JV's filter board with AGC really works great in these circumstances... I couldn't have lasted 2.5 hrs without it! I'll send him a picture of my unpackaged station to post on his web page. I did hear WA6LTV @ 5/4/9 calling N0RC, but guess he couldn't hear me. Couldn't hear N0RC but that was asking a lot given the circumstances. NF0R was QSB in/out both times we worked but solid 5/3/9 or so until QRO dumped on him.

So, first field trial for Rock Mite is success. The resonant ant. (plus Z-Match) and battery pwr effectively eliminated the AM SW Broadcast problem. The RX held up remarkably well under a blistering attack, as I could copy QRP sigs unless QRO were right on top of us. Keying is flawless... got good comments, from VE3SP, Ron up in Hamilton ON, and Karl, K2MJ in NY. The metal can output transistor gets real warm so I slipped on a small heat sink for safety. Note to prospective callers: make sure you are VERY close to Rock Mite freq. I may well have missed some Q's due to narrow passband.
I'll be looking in over the weekend (-hope EU 'Test is over quick) and will be there for the RM gathering Sunday PM.
72/73

"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
N 44.3890 - W 70.8450
FN44nj aa1my@arrl.net

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm

Date: Fri, 9 Aug 2002 21:37:14 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>

Cc: "'Gentleman Jim Cates'" <wa6ger@aol.com>
Subject: [131951] So You Want to be a Builder, Huh? Part 2
Message-ID: <019501c24027$9bab4430$1fa3ad40@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This is the second in a series of articles on how to become a successful builder of ham radio equipment. The opinions are my own, and just that. What I say is not gospel, nor the final answer, but it is based on my experience as a builder, teacher, qrper and guy who likes to grin and have fun. I am writing the series to share with my fellow hams. Enjoy.

I have 3 favorite kits that I think are super values, fun and easy to build, and the best part is that they are cheap. Before you build, you will need some tools. They include a good 15 - 25 watt soldering iron, with a small, but not tiny tip. It's even better to buy one that can take interchangeable tips. You don't need a $100 soldering station to learn on!! Just a good quality iron. You will need a good pair of side cutters, needle nose, and chain nose pliers. I like to use 2% silver solder with a water soluable resin flux. DO NOT USE ACID CORE SOLDER!!! That stuff is for plumbers. And you will need some solder wick or a desoldering hand pump deal from Radio Shack. When you have all of that stuff, you are ready to get started.

The first kit you should build is the VE3DNL Marker Generator from the Fort Smith QRP Group. You can order one for $12 postage paid from Jay Bromley, 9505 Bryn Mawr Cr., Ft. Smith, AR 72908. The Marker Generator can be seen at: http://www.fix.net/~jparker/norcal/marker/marker.htm. Check it out. The kit is simple, 7 parts to solder and comes with all needed parts, a beautiful silk screened solder masked board, and a comprehensive assembly manual. Don't let the simplicity of this baby fool you. You will be building a quality, useful piece of test gear that you will use many, many times in your future building career. What does a Marker Generator do? Well, as the name implies, it generates markers, so that you can use it to calibrate a dial, use it as a simple signal generator to peak a receiver, and several other uses. Believe me, you will use it. But the best part of this kit as a beginning is that it only has 7 parts. I am a science teacher, and one thing every scientist knows is that if something doesn't work, you look at the parts for causes. Lets say that you build a marker generator, plug it in to a 9V battery and listen for it on your receiver. Nothing. Nada. Now what do you do? Well, you start going through it part by part. My first step would be to check every solder joint. Is everything soldered? If not, you better solder it. But don't worry, you only have 33 solder joints to check. Takes just a few seconds. Make sure every solder joint is bright and shiny. If not, reheat and add a dab more solder, making sure the joint liquifies before you take away the heat. Ok, you do that, check it out and it doesn't work. My next step would be to make sure that I

had put every part in the right place. Now this not only involves putting it in the right holes, but the right way. There is a right and a wrong way to mount the chip. And there is a right and a wrong way to mount the diode. The manual will explain how, but each part has a mark that is used to orientate the part, it is an important step, and one that you will need to master to become a successful builder. You only have 7 parts to check, not hundreds that you would have in the K2. The bottom line is that the VE3DNL Marker Generator was chosen because it is useful, cheap, only has 7 parts, and is almost impossible to not build successfully.

Now do you see why we start simple and build up to complex. Lets say the absolute worst case scenario happens. You cannot solder, you cannot build (which I seriously doubt), how much are you out if you bought a VE3DNL? Just $12. What if you bought a several hundred dollar kit to find that out??? Not a fun thing to explain to your wife. But I know that you will be successful in building the VE3DNL, it is almost impossible to mess up. But if you can't possibly get it to work, you get on qrp-l, swallow ahem your pride, and ask for help. Guess what? Guys like Jim Duffey, Dave Fifield, Mike Gipe and others just like them will step forward and help you. QRPers are a friendly bunch, and they love to help other QRPers.

Ok, we got the VE3DNL working, what next? Well, we're gonna spend $15 this time and build a piece of ham radio history, the famous Tuna Tin 2, that was designed originally by Doug DeMaw, and updated by Dave Meacham, W6EMD. The Tuna Tin originally used parts that were all available from Radio Shack. But sadly, a couple of those parts are extinct. Mr. Meacham came to the rescue and figured out how to build the kit using modern easily available parts. The Fort Smith QRP Group, Jay Bromley and the boys, also sell this kit. You don't have to chase down any parts, because the kit comes with a board, all board mounted parts, and a manual. All that you have to do is provide an empty tuna can or cat food can, some connectors, and you can build a transmitter!! Whoa, now we are talking real ham radio. Yes, you can build a transmitter with about 300 mW of power for your own shack, and the best part is that it only costs $15 delivered!!!!!!!! Again you order this from Jay Bromley at the address above. Send him $15 for the kit, US funds, check or money order made out to Jay Bromley, not Fort Smith QRP Group. It helps a bunch if you enclose a self addressed mailing label. When you build the Tuna Tin, you will get to do a couple of new things. One, you will learn how to wind toroids. Don't despair, it is very simple, and two you get to solder parts that are not on the circuit board. Again, very easily done. This may be the most popular QRP rig ever kitted. Thousands have been built. It is easy to build, fun, and will always draw comments from your friends when they see a tuna can with a radio transmitter built in. You can see a Tuna Tin 2 kit at www.norcalqrp.org Just scroll down the page and you will see it.

Simple kit #3 is another piece of test gear, and it comes from the Arizona ScQRPions and Bob Hightower. It is the ScQRPion Stinger Singer, and is a

Frequency Counter for $20!!!!!!!!!!!!! Yes, you read it right, Twenty Bucks!! Dan Tayloe, N7VE, designed this little jewel that fits in an Altoids tin, and the secret is a small chip called a PIC that is programmed to read a frequency and then give the output in audio via Morse Code. This kit again, has all the parts included, and has 17 parts, plus a beautiful circuit board that was layed out by Dave Fifield for the ScQRPions. The Arizona group of QRPers are great people, and they are very similar to the Ft. Smith group in size and both groups host an outstanding QRP Forum that you will want to attend. In fact, when you buy the kits that I am talking about you will be supporting those forums. It is a good cause. You can see a picture and get ordering details on the ScQRPion Stinger at: http://www.extremezone.com/~nk7m/cwafc.htm and you can also specify whether you want slow or fast speed chips. The slow chip runs at 10 - 15 wpm, the fast 18 - 27. What do you do with the Stinger Singer after it is built. You use it as a frequency readout for that rig that doesn't have a readout on it. You check oscilators to see how stable they are and where they are oscilating, use it to determine what frequency crystals are, use it to match crystals, in short, you use it for anything that you would use any other frequency counter for, and the best part is that it doesn't cost $100 plus. It is $20 and you get the fun, pleasure and satisfaction of building it yourself.

Do you have to build all three kits? No but I strongly suggest that you do. You will be building separate skills with each kit, and you will be gaining some confidence in your abilities as you go. Get out the checkbook, order the kits and get that solder flowing. As my good friend, Steve Weber, KD1JV likes to say, Melt Solder. The next installment will cover our first transceiver kit. 72, Doug

Date: Fri, 09 Aug 2002 21:56:49 -0700
From: Dan Tayloe <dtayloe@cox.net>
To: qrp-l@lehigh.edu
Subject: [131952] Coax shorten dipoles?
Message-ID: <3D549D11.B5B0037D@cox.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I was surfing the internet today for articles on small loops as I have been thinking about building one for 30m to go with a new 30m rig that I recently built.

One of the more interesting articles I found was where one gentleman used the velocity factor of coax to shorten his antenna to 66% of full size. He was taking a section of coax and by shorting one end,

grounding the center conductor and feeding the outside shield. This is sounds like half a folded dipole, but using coax instead of twin lead. Due to the velocity factor of the coax, he was achieving resonance with a physical length of only 66% of normal full size.

His next trick was to roll it up in a loop to make it even smaller physically.

My question to all you antenna gurus is whether or not there are any real draw backs to shortening a 1/4 wave radiator in this manner. Is the loss increased? Does the radiation resistance go way down?

If not, it seems a neat trade between length and weight.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Fri, 9 Aug 2002 22:33:25 -0700
From: "Trevor Jacobs" <kg6cyn@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131953] KG6CYN (Radio Trev) Shack Pics...
Message-ID: <000701c2402f$73f01670$b0e8b3d1@tjnotebook>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

Well, with the prodding of Joe W1GFH, I finally put up some pictures of the shack. So, if anyone is interrested check out the web page. Have a great weekend...

73's Trev KG6CYN
http://home.earthlink.net/~kg6cyn
http://www.qsl.net/kg6cyn

Date: Sat, 10 Aug 2002 06:24:25 +0000
From: "Dennis Ponsness" <wb0wao@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [131954] Got My Rock-Mite!!!!
Message-ID: <F180iBuYpL3gegud7Wj0000719d@hotmail.com>
Mime-Version: 1.0

Content-Type: text/plain; format=flowed

WOW!!! Got mine today and can't wait till I start building it up. Dave did an excellent (as usual) job with this one. I bet it will be one of his consistant big sellers. Now, tomorrow, I will order one of Steve's AAPB's to go with it (Steve, you may want to rethink the "limited run" of this kit <grin>). Putting it all in a nice case I got a while back. I will send some pics to Rod for the Rock-Mite site! Now, if we can get Dave to offer it in some other bands!

72 es oo

Dennis - WB0WAO

NJQRP #329
FPQRP #-347
SOC #499
FISTS # 9299
GACW #622

Chat with friends online, try MSN Messenger: http://messenger.msn.com

Date: Fri, 09 Aug 2002 20:25:23 -0700 (PDT)
From: Nelson Winter <thenels@go.com>
To: qrp-l@lehigh.edu
Subject: [131955] Re: The Mighty Rock Mite!
Message-ID: <6578268.1028949923560.JavaMail.thenels@gomailjtp01>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Hmmm... My next question probably sounds silly but I guess that what I need is a more fundemental understanding of where in the circuit the filter is positioned and the componants involved.

Is there a sample schematic that I can reference or look up that you know OF? ;-)

Thanks in advance,
N-

-----Original Message-----
From: "w8diz"<w8diz@fpqrp.com>
To: "Low Power Amateur Radio Discussion"<qrp-l@Lehigh.EDU>

Date: Fri Aug 09 03:32:04 PDT 2002
Subject: Re: The Mighty Rock Mite!

>----- Original Message -----
>From: "Nelson Winter" <thenels@go.com>
>Sent: Thursday, August 08, 2002 11:25 PM
>
>> Me being a newbie to QRP and all...
>> Whatsa AARP Filter?
>
>I believe it's another version of the OF filter, but with better support.
>
>-Diz, W8DIZ
>

GO.com Mail
Get Your Free, Private E-mail at http://mail.go.com

Date: Sat, 10 Aug 2002 06:29:04 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Dan Tayloe <dtayloe@cox.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131956] Re: Coax shorten dipoles?
Message-ID: <Pine.LNX.4.44.0208100619430.2004-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Dan, I think the smart things done with small loops are ways to feed the thing. When a loop is going to work it's Q is very high, like 300 or more. Building a transformer that matches the loop on one side and matches the 1 ohm or less of the loop is very tricky.

As the loop gets larger the feed point impedance begins to get larger.

The coax idea I think will not work because it will lower the Q and that is bad. For a straight Dipole it might work ok. Be interesting to make and test.

On Fri, 9 Aug 2002, Dan Tayloe wrote:

> I was surfing the internet today for articles on small loops as I have
> been thinking about building one for 30m to go with a new 30m rig that I
> recently built.
>
> One of the more interesting articles I found was where one gentleman
> used the velocity factor of coax to shorten his antenna to 66% of full
> size. He was taking a section of coax and by shorting one end,
>

--
Yours Truly,

 - Karl F. Larsen, (505) 524-3303 -

Date: Sat, 10 Aug 2002 08:55:33 -0400
From: "ss lyon" <sslyon@megalink.net>
To: "chat qrp" <qrp-l@lehigh.edu>
Subject: [131957] QRP - GPS redux
Message-ID: <003201c2406d$3712ff40$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK, I'm nearly set to take the plunge. Figure I'd better take time to learn GPS before heading out on my QRP adventures. Unlike certain solder melters we know, I'll be looking for optimum antenna locations regardless of proximity to established trails. The mapping functions, esp. Topo, will be important here where heavy tree canopy makes it nearly impossible to spot ones location on the terrain -unless you climb big trees.
I've pretty much narrowed the tortuous search down to Garmin units. Two questions:
a.) Has anyone who owns basic units, or the "Legend", regretted not going for the more expensive "Vista" or "'76S" ?
b.) Does the external antenna option make a significant difference under dense canopy?
These units seem to go up in $100 jumps, so the decision isn't trivial. Thanks in advance.
72/73
 "Seab" Lyon - AA1MY
 Bethel, ME 04217 USA
N 44.3890 - W 70.8450
FN44nj aa1my@arrl.net

Date: Sat, 10 Aug 2002 07:53:38 -0600
From: "P.Ermisch" <ermisch@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131958] Re: [Re: The Mighty Rock Mite!]
Message-ID: <20020810135338.24746.qmail@uwdvg020.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Nelson,

 See http://www.qsl.net/kd1jv for more details. He designs and sells wh=
at
you're asking about.

Paul KB0LUR

Nelson Winter <thenels@go.com> wrote:
> Hmmm... My next question probably sounds silly but I guess that what I=
 need
is a more fundemental understanding of where in the circuit the filter is=

positioned and the componants involved. =

> =

> Is there a sample schematic that I can reference or look up that you kn=
ow
OF? ;-)
> =

> Thanks in advance,
> N-
> =

> -----Original Message-----
> From: "w8diz"<w8diz@fpqrp.com>
> To: "Low Power Amateur Radio Discussion"<qrp-l@Lehigh.EDU>
> Date: Fri Aug 09 03:32:04 PDT 2002
> Subject: Re: The Mighty Rock Mite!
> =

> >----- Original Message ----- =

> >From: "Nelson Winter" <thenels@go.com>

> >Sent: Thursday, August 08, 2002 11:25 PM
> >
> >> Me being a newbie to QRP and all...
> >> Whatsa AARP Filter? =

> >
> >I believe it's another version of the OF filter, but with better suppo=
rt.
> >
> >-Diz, W8DIZ
> >
> =

> =

> ___
> GO.com Mail =

> Get Your Free, Private E-mail at http://mail.go.com
> =

> =

Date: Sat, 10 Aug 2002 10:22:18 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: atrail@yahoogroups.com
Cc: qrp-l@lehigh.edu
Subject: [131959] NH AT HIKE CANCLED
Message-ID: <3.0.6.32.20020810102218.007b23e0@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Looks like its gonna rain all day here, as a warm front pushes in. Dang,
can't ever trust the weekend Wx reports around here! Between that and the
chance what ever contest took over the 40M band last night is still going
on, don't seem worth the effort to get wet :-)

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire

http://www.qsl.net/kd1jv/

Date: Sat, 10 Aug 2002 08:06:55 -0600
From: William R Colbert <w5xe@juno.com>
To: tdufresne@neb.rr.com, qrp-l@lehigh.edu
Subject: [131960] Re: Older headphones
Message-ID: <20020810.081039.-389221.0.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have no info on how to locate shorts in the headset
but you might look at Antique Electronic Supply out
of Tempe, Az www.tubesandmore.com for the
fabric wire. I don't recall if they do have it, but worth
a look.

73
Ray
It is amazing what you can accomplish if you do not
care who gets the credit. HST
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M
NARTE-NCT2R FP# 111, SOC#78,QRP-ARCI 5784,
El Paso,(FAR WEST)TEXAS

Date: Sat, 10 Aug 2002 07:42:59 -0700
From: Bruce Grubbs <mail@brucegrubbs.com>
To: sslyon@megalink.net,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131961] Re: QRP - GPS redux
Message-ID: <E17dXRJ-0001QZ-00@hawk.mail.pas.earthlink.net>
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Seab,
Make sure you get a 12 channel parallel receiver model. Some of the cheapest
units (and older used receivers) still use multiplexing receivers. Parallel
receivers lock on to the satellites more quickly and maintain the lock under
more difficult conditions- like tree canopies. That's the most critical
buying decision.

An external antenna is not needed for handheld use in the field, just in a

building, vehicle, or aircraft. The antenna must have a clear view of the sky, though I get good results most of the time with the receiver on the dashboard of a car or on top the instrument panel of a small plane. An external antenna won't help under dense trees (unless you can get it above the trees).

If you are going to use it in a vehicle, make sure the unit has a connector and adapter for vehicle power.

For use with computer-based maps like Topo!, you'll need a data port on the GPS unit and a computer cable. Programs like Topo! make using a GPS much easier and more practical. You can enter waypoints by clicking on the map and downloading them to the GPS- much faster and more accurate than entering waypoints from the GPS keypad. Also, you can upload waypoints and routes you save in the field and view them on the Topo! maps.

73
Bruce Grubbs
N7CEE
(author of "Using GPS")

Date: Sat, 10 Aug 2002 07:54:03 -0700 (PDT)
From: "W2BJ" <w2bj@minsky.info>
To: wb0wao@hotmail.com
Cc: qrp-l@lehigh.edu
Subject: [131962] Re: Got My Rock-Mite!!!!
Message-ID: <20020810075403.9771.h006.c007.wm@mail.minsky.info.criticalpath.net>
Content-Type: text/plain; charset=iso-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

On Sat, 10 August 2002, "Dennis Ponsness" wrote:

>
> WOW!!! Got mine today and can't wait till I start
> building it up. Rock-Mite site!

I can't wait for mine to get here!

72/73,
Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L,
FISTS #2701, Century club #569, Platinum #51,
Silver #119, FISTS CW club of Coastal Georgia,
Knightlites, Adventure Radio Society #359,

QCWA #29298, OOTC #3723, SOC #193, K2 #577, K1 #98

Date: Sat, 10 Aug 2002 09:57:07 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@lehigh.edu>
Subject: [131963] It's Crystal Clear (first filter) (1,464 words)
Message-ID: <01C24054.4A65A0C0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I thought the conjugate match thread was kind of interesting, but after I saw that big gang of angry peasants armed with pitchforks and torches at my castle wall, I decided it was time to move on.

Been trying to break into the lucrative crystal measurement racket, along with the likes of Jim K and other advanced homebrewers, for a while now. Down here in Arkansas, crystals grow naturally and are mined somewhere near Hot Springs. They sell 'em to credulous New-Agers and the flakes that populate places like Sedona, AZ. Those folks think crystals have magical powers. They don't know the half of it!

It seems to me that for homebrewers, designing and building your own crystal filters is one of the more exotic and advanced challenges in the process. So if you can do that, you can do anything. (Well, almost.) The crystal is seen as a black box with a series resistor, inductor and capacitor in it. Your task is to figure out their values. It takes a stable signal source, with resolution down to the Hertz. (Or maybe 10 Hz would work, depending on the crystal.) Then you need a method of driving the crystal in a circuit of constant impedance in both directions and measuring the output as you vary the frequency.

A lot of good articles and circuits have been published on how to do this in the past ten or twenty years. (I started to say "recently".) Three of the classic articles are included as appendices in W1FB's Design Notebook (ARRL). Two are by Hayward, W7ZOI and one by W1FB. In the last one, DeMaw integrates some Hayward test circuits into a complete crystal evaluation instrument. There's a board available for it from FAR. But to me, the best design is the recent one by Jim Kortge. It's in this year's Atlanticon proceedings and the test rig is available as a kit from the New Jersey bunch. Jim designed a clever VXO circuit that uses one of the crystals you are testing in the signal generator, and a measurement circuit that would allow using either your scope or DVM to read its output.

I had already started on the FAR board before Jim's circuit came out. Circuit boards (as opposed to Manhattan) are great for Heathkit-fast

assembly, but not so good for troubleshooting. You pull a part, you lift a pad. On my board, one of the amplifiers was oscillating. This was right after the "things that didn't work" thread, and ensuing posts on the art of homebrewing, so it was kind of timely. I finally ended up "neutralizing" it with a sort of gimmick capacitor like they did back in the tube days. Weird. Ever seen that done on a transistor amplifier?

Anyway, this is a learning experience for me. I started out checking the Q of some cheap 7.68 MHz crystals (B.G. Micro) for a possible SW-30 project. I got an initial value of about 5,000. Geez, these crystals are worse than awful! Then I finally figure out-I'm looking at the *loaded* Q. You get an extra 100 ohms of circuit resistance from the generator and measu rement device. Heh ? I knew that.

Basically, you do two operations with the evaluation circuit. First, you vary the frequency and find the peak (resonance) and the - 3 dB down points. That will give you the loaded bandwidth and Q. Then you go back to the resonant frequency and substitute a variable resistor for the crystal and adjust for the same output you had with the crystal at resonance. This is the series resistance of the crystal. I had trouble doing this with any reasonable resolution. The resistance is small and matching readings over a range of small Rs is difficult because the reading doesn't change much as R changes by a couple of ohms. I finally ended up building a little jig similar to what Jim designed-putting the crystal between two 4:1 transformers multiplies the resistance up so you see a greater effect. I also had trouble getting good readings out of the evaluator circuit because I was over-driving it. I'm using my Multi-Pig PLL/VCO as a signal generator and I needed over 40 dB of attenuation to keep things linear. (You know, the MFJ-259B would be great for this job if you could phase lock its oscillator. But it's just not stable enough or "settable" enough for the job as-is.) BTW-another gadget I use is the AZ Stinger Singer counter-so I'd better take back that crack about Sedona.

After you get all those numbers, you plug 'em into some big scary looking equations and your crystal's Q, inductance and capacitance pop out. But don't be put off by the math-the PC handles it all. In my case, it's done by Excel.

Some articles say to put the crystals into an oscillator for frequency matching. It just seems to me that using the peak reading from your test unit would be a better way. The crystals should be matched within 10% of the filter bandwidth. I just barely (or almost) made it with my six fifty-cent crystals, getting three to match. But I should have bought more to improve my odds.

OK, now what? There are various computer programs and techniques in articles you can apply to turn your newly characterized crystals into a filter. If you don't have programs such as those supplied with

Introduction to Radio Frequency Design (Hayward), I like the method he gives in one of the articles I mentioned above, originally published in QST, May 1982. It gives a table of values for various filters and formulas to use with these standard values any your measured parameters. Plug and chug. But the software with IRFD is nice because it plots the response of the filter and allows you to do some cut and try.

I built/designed my first crystal filter from scratch today. Just a 3-pole, 500 Hz thing. I'd bought one of Kanga's log power meters a while back, so I was able to check a bunch of points and graph the response with Excel. It looks like ? a filter! So this is kind of a Happy Dance type posting. Rejection is -55 dB at -1,250 Hz on the sharp side and -55 dB at +2,000 Hz on the lazy side. Not bad for $1.50 worth of crystals and a few capacitors. I was anxious to "hear" it, but then I realized I'd need a mixer, LO, product detector, BFO and audio amp. So I guess I'll just get to work on building that SW-30 around it.

Rambling on now, there's a simpler method of measuring the crystal's L and C. It's called the G3UUR method and was shown in a sidebar to Hayward's article in QEX, June 1995. You just build a simple oscillator and switch a capacitor in series with the crystal in and out. From the frequency shift, you can calculate the values. But for me it overestimated L (and underestimated C) by about 25% or more. From fooling with it on a spreadsheet, I can see that the error appears to come from the parallel (holder) capacitance. But redoing the equations to include that factor is a little beyond me at present. All those numbers get real tangled up in a hurry.

On buying crystals, I asked Jim K. where he gets them and he said he likes ECS from Mouser for consitently high Q and good quality. I admire Jim's perfectionism, but my ham spirit directs me to the cutout bins and into those boxes stashed under the table at the hamfest. However, I see Mouser's prices for new aren't that much more than most surplus prices, so maybe you can have it both ways. Pretty hard to beat that Goldmine deal though, eh?

This QRP homebrewing thing has taken me a long way in a few years. Direct conversion receivers? Nice, and they work well. But when I was a kid, those expensive receivers with "single signal reception" were the Holy Grail. So to be able to build a superhet with stable, smooth tuning VFO and a sharp crystal filter ? that's right up there.

Bibliography:

W1FB's Design Notebook, including
A Unified Approach to the Design of Crystal Ladder Filters (Hayward, QST, May 1982)
Designing and Building Simple Crystal Filters (Hayward, QST, July 1987)

A Tester for Crystal F, Q, and R (DeMaw, QST January 1990)

Refinements in Crystal Ladder Filter Design (Hayward, QEX, June 1995)
Designing and Building High Performance Crystal Filters (Makhinson, QEX, January 1995)
Simplified Tools and Methods for Measuring Crystals (Kortge, 2002 Atlanticon Proceedings)

Web Info: ECS International, Inc; Ecliptek Corporation

QRP-L post: "13.5 MHz CW Filter Design" December 27, 2001 Kent Torell, fwd from Mike Brainard

72--Nick, WA5BDU

Date: Sat, 10 Aug 2002 08:00:13 -0700 (PDT)
From: "W2BJ" <w2bj@minsky.info>
To: dhauff@digitalputty.com
Cc: qrp-l@lehigh.edu
Subject: [131964] Re: Rock Mite Enclosures!
Message-ID: <20020810080014.28029.h001.c007.wm@mail.minsky.info.criticalpath.net>
Content-Type: text/plain; charset=iso-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

"Doug Hauff" wrote:

> OK, OK, I know I'm nuts but I'm gonna make a CNC box for my 'Mite, so since I'll have the program & setup, might as well make a few, huh? I'm thinking simple/cheap...no fancy engraving or parts kit, just a very compact CNC hogout enclosure, anodized, about 20 bucks out the door...anyone interested?
>
> 72,
>
> Doug KE6RIE

How do I pay for it?

72/73,
Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L,
FISTS #2701, Century club #569, Platinum #51,
Silver #119, FISTS CW club of Coastal Georgia,
Knightlites, Adventure Radio Society #359,
QCWA #29298, OOTC #3723, SOC #193, K2 #577, K1 #98

Date: Sat, 10 Aug 2002 11:14:59 -0400
From: John Wagner <john@wagner-usa.net>
To: <qrp-l@lehigh.edu>
Subject: [131965] SWL Kit?
Message-ID: <B97AA632.3FBA%john@wagner-usa.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Gang,

I've been on postpone mode for a while, and pretty much ignoring the list prior to that due to being way too busy doing other things.

Before I went out of touch briefly, I recall seeing something about one of the major QRP clubs kitting up an SWL kit. I'm hoping I haven't missed the announcement, or completely missed a limited run of these. I was hoping to pick one of these up for one of my sons who is showing an interest in building.

Any info on this kit appreciated.

Thanks es 73,

John, N1QO
--
John Wagner - john@wagner-usa.net - john@neknetwork.com
http://www.neknetwork.com/

Date: Sat, 10 Aug 2002 09:26:48 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: <qrp-l@lehigh.edu>
Subject: [131966] Re: Coax shorten dipoles
Message-ID: <B97A8CD8.1B18E%jamesd1@flash.net>
Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Dan - I don't think that the antenna you describe uses the velocity of the coax to reduce length.

The velocity factor applies to the currents flowing inside the coax which generate fields in the dielectric which do propagte at the reduced speed of light in the dielectric (the velocity factor) of the coax. However these currents cannot be responsible for antenna radiation since they are equal and opposite, as well as shielded by the coax.

The current on the outside of the coax will do the radiating. It will generate fields in air (and the small in terms of wavelength insulation) that travel at the speed of light in air, and which will have a velocity factor close to one.

I am not sure how the antenna you describe achieves the loading required to reduce its length, but it is not by the velocity factor. - Duffey
--
James R. Duffey KK6MC/5
Cedar Crest, NM DM65

Date: Sat, 10 Aug 2002 08:37:41 -0700 (PDT)
From: Tom Popovic <ki3r@yahoo.com>
To: leon_heller@hotmail.com,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131967] RE: Clisby Vertical Milling Machine and Lathes
Message-ID: <20020810153741.56650.qmail@web11202.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Leon Heller <leon_heller@hotmail.com> wrote:
>
>
>
> >From: "AI2Q Alex"
<ai2q@adelphia.net>
> >Reply-To: ai2q@adelphia.net
> >To: "Low Power Amateur Radio
Discussion"
> <qrp-l@Lehigh.EDU>
> >Subject: RE: Clisby Vertical Milling Machine
and

> Lathes
> >Date: Thu, 8 Aug 2002 21:00:21 -0400
> >
> >This discussion is interesting, but these
comments
> assume one already knows
> >how to use a lathe or milling machine. I for
one,
> do not, but would very
> >much like to learn. How do I proceed?
>
> You can't really learn this sort of thing from a
> book, you have to actually
> operate the things
>

Agreed Leon ... I firmly believe that one has to
operate the machine and fail from time to time in
order to get the basics. A good simple text is one by
the defunct Atlas company or Sears regarding their 6
inch lathe. I am sure that one could be found about.
I am in no way an expert but I have got out of some
"tight" spots by using my lathe for radio,
household and auto repairs. Also I have to laugh to
myself regarding comments from fellows regarding
"cheap" machine tools. I guess this thought
process transcends ham radio and cuts across all
hobbies. Some feel that only the best will do and the
unfortunate aspect of this reasoning is that it turns
off a lot of people to try new endeavors.

Maybe, God willing, I will build that TICH locomotive
that I bought the book and drawings for years ago.

God Bless 73 Tom KI3R Port Vue Pa nr Pittsburgh
>
>

> Send and receive Hotmail on your mobile device:
> http://mobile.msn.com
>

=====
The common good was the claim and justification of every
tyranny ever established over men. Every major horror of
history was committed in the name of altruistic motive...
Actors change, but the course of the tragedy remains the

same. Ayn Rand 1943

Do You Yahoo!?
HotJobs - Search Thousands of New Jobs
http://www.hotjobs.com

Date: Sat, 10 Aug 2002 15:40:52 -0100
From: Bill Meara <n2cqr@clix.pt>
To: nkennedy@tcainternet.com
Cc: qrp-l@lehigh.edu
Subject: [131968] Re: It's Crystal Clear (first filter) (1,464 words)
Message-ID: <1.5.4.32.20020810164052.01047110@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:57 AM 8/10/02 -0500, Nick wrote:
>Been trying to break into the lucrative crystal measurement racket, along
>with the likes of Jim K and other advanced homebrewers, for a while now.

Nick: Here's how I handled the crystal problem. This is an excerpt from an article on the construction of a Doug DeMaw "Barebones Superhet" for 20. See http://planeta.clix.pt/n2cqr/rxhb.htm for the whole article. Question for the group: I want to broaden the filter for use with SSB. I'd like to keep it simple by just changing the values of the caps. Any suggestions for the values I should use?

Filter Finale

In a certain sense I was done. I was able to pair my new receiver with my QRP transmitter and was easily able to make QSO's. I was working European stations regularly with 3 watts out. But my simplified crystal filter was a too wide for serious CW work. I could hear several CW signals simultaeously and - worse yet - I could hear the "other sideband" on the stronger signals. So I hadn't really achieved the coveted "single signal reception" status that is - after all - one of the main reasons for going the superhet route.

There are a number of excellent article out there on the design of CW crystal ladder filters. Unfortunately the building of these filters requires the use of some special test gear to determine the electrical charecteristics of the particular crystals that will be used.

Wishing to avoid the construction of test gear that would be more complicated than my radio, I decided to simplify filter construction. I bought a bag of 50 3.579 Mhz TV color burst crystals from Dan's Small parts. I then built a simple Colpitts oscillator circuit on a Radio shack

breadboard. I tuned my Drake 2-B receiver to 3.579 Mhz and started plugging crustals into my breadboard oscillator. I screened out those rocks that were signficantly off frequecncy, then I went through the pile again, judging by ear (using the tone from the Drake 2-B) to select three crystals that were very close in frequency. (I know that a frequency counter would have made this easier, but I don't have one so I had to "make do".)

I simply pugged these crystals into the filter circuit described in Doug DeMaw's 1982 article. Essentially I was "hoping for the best", hoping that the characteristics of my rocks would not be significantly different from those employed by Doug DeMaw.

It all worked out very well. The new filter significantly sharpened my receiver's selectivity. I could no longer hear strong signals at two points on the dial. Single signal reception had been acheived!

73 de Bill CU2JL N2CQR
Sao Miguel Island, Azores, Portugal
900 miles West of Lisbon 37.7N 25.67W
http://planeta.clix.pt/n2cqr

Date: Sat, 10 Aug 2002 16:31:30 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: nkennedy@tcainternet.com, qrp-l@lehigh.edu
Subject: [131969] Re: It's Crystal Clear (first filter) (1,464 words)
Message-ID: <F13523vQuQYfrwD7Vui00017ba8@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Nick Kennedy <nkennedy@tcainternet.com>
>Reply-To: nkennedy@tcainternet.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: It's Crystal Clear (first filter) (1,464 words)
>Date: Sat, 10 Aug 2002 09:57:07 -0500

We had an interesting thread going on xtal filters a year or so ago.

I've just ordered a copy of an article in Wireless World 1977, about a design technique I favour, which isn't used very often. I'm OK on four crystal designs with this technique, but need the coefficients for six crystals, which this article has. I'll write up some notes when I get the

article from the British Library. I think it was based on an original article in Radio-REF, the French amateur radio society's mag.

An alternative technique for measuring the xtal parameters is to measure the series and parallel resonant frequencies, and the 3 dB points. You can then calculate the series resistance, inductance, etc. A program to do the calculations is here:

http://www.netppl.fi/~jonverro

73, Leon
--
Leon Heller, G1HSM Tel: +44 1424 14790
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

Chat with friends online, try MSN Messenger: http://messenger.msn.com

Date: Sat, 10 Aug 2002 09:43:31 -0700
From: Mike <mparkes@att.net>
To: <qrp-l@lehigh.edu>
Subject: [131970] Heathkit HM-9 QRP wattmeter info sought
Message-ID: <B97A90C2.576%mparkes@att.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Is the Heathkit HM-9 a decent qrp wattmeter?
It appears to measure HF on 2 scales either 5 watts or 50 watts I think - anyone have any thoughts on this unit, if its reasonable accurate, maybe how to calibrate it?
Thanks
Mike AB7RU

Date: Sat, 10 Aug 2002 16:52:57 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: ki3r@yahoo.com, qrp-l@lehigh.edu
Subject: [131971] RE: Clisby Vertical Milling Machine and Lathes
Message-ID: <F172AbyQwp00TJJcOnJ00009633@hotmail.com>

Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: Tom Popovic <ki3r@yahoo.com>
>To: leon_heller@hotmail.com, Low Power Amateur Radio Discussion
><qrp-l@Lehigh.EDU>
>Subject: RE: Clisby Vertical Milling Machine and Lathes
>Date: Sat, 10 Aug 2002 08:37:41 -0700 (PDT)
>Agreed Leon ... I firmly believe that one has to
>operate the machine and fail from time to time in
>order to get the basics. A good simple text is one by
>the defunct Atlas company or Sears regarding their 6
>inch lathe.

A very good book I've got on this stuff, which covers all the basics,
including the use of hand tools, is Model Engineering, by Peter Wright,
published by Nexus. South Bend's lathe manuals are highly regarded. Sadly,
S-B has just gone under, also.

The US Army has some very good web pages on using machine tools:

http://www.adtdl.army.mil/cgi-bin/atdl.dll/tc/9-524/toc.htm

73, Leon
--
Leon Heller, G1HSM Tel: +44 1424 14790
Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: http://www.leonheller.com

Join the world s largest e-mail service with MSN Hotmail.
http://www.hotmail.com

Date: Sat, 10 Aug 2002 12:03:11 -0500
From: "Frank Emens" <femens@hiwaay.net>
To: qrp-l@lehigh.edu
Subject: [131972] Coax Shortened Dipole
Message-ID: <3D5500FF.13361.FD671D@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT
Content-description: Mail message body

With one change, the antenna you describe would be one that I've used successfully several times in the past. It's often called a "Double Bazooka".

Take the piece of coax a half wavelength in length at the desired frequency taking into account the velocity factor of the coax (Vf*492/F) where Vf is velocity factor and F is the frequency in Mhz. Short the xhield and center conductor at each end, cut the shield at the center and make that the feed point. Then, and here is the difference, extend each end of the antenna to a normal dipole langth taking into effect end effect. (468/F).

Feed with 52 ohm coax, preferrably using a current balun or ferrite choke to isolate shield currents on the feedline.

The antenna system becomes effectively a half-wave dipole with two quarter wave shorted stubs in parallel across the feed point. As the frequence moves across resonance, the reactance of the shoirted stubs changes in a direction opposite to the change in reactance of the dipole, increasing the useful bandwidth of the antenna.

It is not shortened, but is useful over a wider range of frequencies. It has the disadvantage that, unlike a regular dipole, it will not work on even harmonics, since the shorted stubs become shorted half waves and appear as a short at the feedpoint.

Since the whole antenna is at ground potential for DC and low frequencies, it is in unusually quiet antenna.

I know this antenna has spawned some controversy, but I've built several versions of it and they all worked as advertised.
--
Frank Emens
femens@hiwaay.net

Date: Sat, 10 Aug 2002 17:37:32 +0100
From: "TC Dufresne" <tdufresne@neb.rr.com>

To: <qrp-l@lehigh.edu>
Subject: [131973] CNC Rock mite case
Message-ID: <000c01c2408c$39fbd640$d3b61c41@neb.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would like to be included in the Rock Mite CAse project.
thanks!
Tom
KC0GXX

Date: Sat, 10 Aug 2002 11:45:16 -0600
From: William R Colbert <w5xe@juno.com>
To: mparkes@att.net, qrp-l@lehigh.edu
Subject: [131974] Re: Heathkit HM-9 QRP wattmeter info sought
Message-ID: <20020810.114519.-389221.3.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have one that I got as one of the last amateur kits
Heathkit offered. It is fairly easy to calibrate and
the accuracy is readable pretty closely to half watt
on the 0-5 watt scale. I like to use mine when I have
the HW16 on line which is switchable between qrp
and qro levels. (Ade Weiss modification from many
years ago.) I think the book gives the calibration
info, and you have to make sure the right resistors are
in place as the meter was designed for both hf and VHF
and came with the appropriate resisistors for whichever
range one wished to use. I used both my Bird 43 with the
50H slug to check the accuracy, as well as my WM2
for the lower levels and the HM9 compares favorably.
Within the 10% figure given for the others. All in all,
I think it is a good little swr/watt meter.

73
Ray
It is amazing what you can accomplish if you do not
care who gets the credit. HST
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M
NARTE-NCT2R FP# 111, SOC#78,QRP-ARCI 5784,
El Paso,(FAR WEST)TEXAS

Date: Sat, 10 Aug 2002 12:57:22 -0500
From: <jfox6@houston.rr.com>
To: "QRP" <qrp-l@lehigh.edu>
Subject: [131975] Coax shortened Dipole
Message-ID: <002c01c24097$60d052e0$0100a8c0@houston.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have to disagree with James Duffy (same subject).
If the velocity factor has no effect on shortening the dipole, then how does one account for the length of a stub which one had better take into consideration or the stub will be too long. Go figure.

Foxy
jfox6@houston.rr.com
http://www.qsl.net/w5hir

Date: Sat, 10 Aug 2002 11:12:03 -0700
From: "Doug Hauff" <dhauff@digitalputty.com>
To: <qrp-l@lehigh.edu>
Subject: [131976] 'Mi-Te-Box update
Message-ID: <008a01c24099$89c10ee0$34393442@fix.net>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Pretty good name, huh?...

I will carve out a prototyope Mi-te-box in the next few days & get a bar of material...I can get about 60 units out of a bar, this will be the run...I have gotten probly 35 0r 40 'yes' responses, so 60 pcs oughta cover it...at least for now...I will get full info on my web page www.americanmorse.com in a few days, I will get set up with Pay Pal to make it simple, so everybody can just order thru the Net...

Basic Specs: CNC hogout from 6061 aluminum, anodized (color not yet determined), with holes for controls etc drilled...3.5x2.2x1.0 inches...cover & board mounting hardware included, no engraving, no other parts included, it will be set up for jacks, etc available from RS...coaxial

power jack, BNC ant. connector, etc...

Many thanks again to Dave Bixler who sent me Windows 95 for my swapmeet laptop...now I got my CAD/CAM system in it, I was programming the Mi te box last nite at my kitchen table! Cool!

72,

Doug KE6RIE

Date: Sat, 10 Aug 2002 11:21:56 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [131977] NorCal VXO Contest Entries
Message-ID: <MABBJOEABOILMKCJCLFCAEBADIAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This Pacificon contest is open to hams who cannot be present in person, so a way is needed to get those entries to the contest. Doug has asked me to accept entries and carry them to the contest, which I'm willing to do.

You will have to enclose your schematic and any other info you want the judges to see. Remember the power provisions--

3. Each VXO will have a 2.1 mm power jack for power.
4. We will test each VXO by plugging it in to a 12V power supply provided by us.

Please pack your VXO entry solidly, so the PO won't undo your good work :-)
Also, be sure to enclose your return address.

Mail your entry to me in plenty of time. I'll be attending the Friday antenna seminar, so your entry must reach me no later than Thursday, October 17. It would be best to plan on a day or so earlier for safety.

All the entries received by Thursday will go with me to Pacificon.
At the contest, WE (To Be Determined) will unpack each entry, set it up and submit it to the tender mercies of the judges.

My address is
Bob Tellefsen, N6WG
6607 Normandy Drive

Newark, CA 94560-1134

After Pacificon, I'll return your entry in your shipping material. Please use something reusable.

Good luck and 73,
Bob N6WG

Date: Sat, 10 Aug 2002 14:41:17 -0400 (EDT)
From: Thom LaCosta <baltimoremd@baltimoremd.com>
To: "Brice D. Hornback" <bdh@cyberbound.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131978] Re: Clisby Vertical Milling Machine and Lathes
Message-ID: <20020810143634.W87480-100000@unix1.vhost.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 9 Aug 2002, Brice D. Hornback wrote:

> Clisby Miniature Machines
> http://www.cyberbound.net/clisby
>
> Remember folks... the Internet is case sensitive.

Actually it's more like some internet webservers are case sensitve...Linux and Unix, for example. Windows based servers are not.

And so, page designers who for whatever reason use MyQRPhome.htm on a windows development platform can sometimes upload the mixed case file to a Unix/Linux server...and then, if we attempt to access myqrphome.htm, it can't be found.

Least troublesome mode is NOT to use cute Windows Style/MAC style file names.

thom

baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster
http://www.baltimoremd.com/ Baltimore's Home Page
http://www.baltimorehon.com/ Home of the Baltimore Lexicon
http://www.zerobeat.net Home of The QRP Web Ring
and Drake Mail List Pages

Date: Sat, 10 Aug 2002 13:52:42 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'Bill Meara'" <n2cqr@clix.pt>
Cc: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [131979] RE: It's Crystal Clear (first filter) (1,464 words)
Message-ID: <01C24075.33296F60.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Very nice story on your page, Bill. It really parallels the story I was trying to tell.

I had to nod my head when I read of the OT's telling you that building a receiver is perhaps too difficult for the typical homebrewer. I'll always remember my Elmer lecturing thusly, "Build that transmitter! But you gotta BUY that receiver."

Its great that you were able to come up with a good, functional filter just by matching frequencies. In fact, one of the Hayward articles suggests doing just that. But articles of that nature presume a lot of intuitive knowledge. "Well, I just sorta knew that 150 pF shunt caps would do OK for a 500 Hz filter." You wanna grab 'em by the throat and say, how?? How did you know that!?

In a sense, I did the same thing with my 2N2/40 filter. Of course, Jim had sized the caps, but my crystals came from Dan's and no measurements other than frequency matching had been performed. It worked pretty well.

Your modular approach to building is a good lesson too. That's where I get into trouble--building too much at once.

On your question on capacitors to use for a SSB version of your 3.579 MHz filter. First, it goes without saying that I'm a novice, so with that disclaimer out of the way ...

You need numbers to use these analytical methods, so let me make a wild guess that Rs is 20 ohms (an approximation Hayward used in his article) and crystal unloaded Q is 80,000. That allows calculating XL = Q*Rs or 1,600,000 ohms. From that, Lm of the crystal is 71.15 Mh and Cm is 0.0278 pF. Hayward's article wants to know the delta-F we got from our imaginary test. You can get that from your loaded Q being 1.6E6 ohms divided by (100 + 20) ohms, or 13,333. (The 100 is the source resistance of the generator plus the load resistance of the bridge.) Then delta F would be 3.579 MHz divided by the loaded Q, giving 268.45 Hz.

That's enough info to plug into the formula that I have set up in Excel.

Choosing the Chebyshev 0.1 dB ripple design and bandwidth comes up with your two shunt caps being 62.6 pF and the input/output resistances being 729 ohms. For a filter where the resistance comes out less than 50 ohms, this method gives a shunt end capacitor value to bring it up to 50. But in this case, you're on your own to match it to the input and output you are using.

OK--I took those numbers and plugged them into Haywood's G87 (aka GLPA) program. It plotted a curve that looks sort of OK for a simple design. Looks about 2 kHz wide with a couple dB ripple. On the steep (high) side, it's -70 dB down at +5 kHz and on the shallow (low) side, it's about -35 dB down at -5Khz. Of course, your mileage is going to vary but this could be a better starting point than spinning Doug's brass doohickey.

GLPA is not public domain (as far as I know). Maybe someone out there knows of a program to analyze these filters that is free or shareware. Seranaede? I didn't find Electronic Workbench to be satisfactory for this.

BTW fellows, this stuff kind of falls in with that NORCAL VXO contest. Measuring the crystal's parameters ought to allow you to calculate how much L and how much C you need to pull the thing and eliminate some cut and try. Of course at some point, the crystal is going to defy the math and turn into a pumpkin or maybe a steam calliope. You think? Still, you need every edge including measurements, calculations, and knowing what kind of beer the judges like. Don't let the Doc get ahead of you on any of these tricks.

72--Nick, WA5BDU

-----Original Message-----
From: Bill Meara [SMTP:n2cqr@clix.pt]
Sent: Saturday, August 10, 2002 11:41 AM

At 09:57 AM 8/10/02 -0500, Nick wrote:
>Been trying to break into the lucrative crystal measurement racket, along
>with the likes of Jim K and other advanced homebrewers, for a while now.

Nick: Here's how I handled the crystal problem. This is an excerpt from an article on the construction of a Doug DeMaw "Barebones Superhet" for 20. See http://planeta.clix.pt/n2cqr/rxhb.htm for the whole article. Question for the group: I want to broaden the filter for use with SSB. I'd like to keep it simple by just changing the values of the caps. Any suggestions for
the values I should use?

Date: Sat, 10 Aug 2002 13:59:50 -0500
From: "George, W5YR" <w5yr@att.net>
To: jfox6@houston.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131980] Re: Coax shortened Dipole
Message-ID: <3D5562A6.27E49503@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Foxy, the difference is where the current flows that is making things happen.

In a stub, the propagation mode is such that the currents are conveyed within the coax in differential mode, so the Vp comes into play. In the antenna situation, the current causing the antenna to radiate is carried by the coax outer braid and that mode does not involve the coax interior. So the Vp doesn't enter into the situation.

What happens with the Bazooka or Coax Dipole antennas is simply that an open stub is connected to the radiator at an appropriate point such that the stub "loads" the antenna much in the manner of linear loading. In fact, this *is* linear loading but with a lossy load. It is the loss that accounts for the small increase in SWR bandwidth and the linear loading that accounts for the shortening of the radiator.

No magic - just plain old physics . . . a plain piece of wire will do the job better.

I have found that it is a challenge to disagree with Jim unless you are prepared with the facts and data to support your case. <:}

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

jfox6@houston.rr.com wrote:
>
> I have to disagree with James Duffy (same subject).
> If the velocity factor has no effect on shortening the dipole, then how does
> one account for the length of a stub which one had better take into
> consideration or the stub will be too long. Go figure.

Date: Sat, 10 Aug 2002 12:03:54 -0700
From: Jeff Dairiki <dairiki@dairiki.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131981] FS/giveaway: A (stale) year of QST
Message-ID: <20020810120354.218807c1.dairiki@dairiki.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

I have a year's worth of QST backissues: October, 2000 through September
2001.

They're free if you can pick them up here in Seattle, otherwise they'll
cost $10 S/H (CONUS).

73 de Jeff, KI6MO/7
<dairiki@dairiki.org>

Date: Sat, 10 Aug 2002 15:14:25 -0500
From: "Donald Dorn" <DDORN@cwis.net>
To: <nkennedy@tcainternet.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [131982] Re: It's Crystal Clear (first filter) (1,464 words)
Message-ID: <000901c240aa$a4b77660$2a69a5d0@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Nick, try the Cohn filter, as described in the W1FB Design Notebook. .
No calculations needed, no measurements needed, except for matching the
xtals in freq. And, all the caps will be the same value. During the past
few years I have made ten or twelve of them for cw that turned out well.
I also made a ssb filter using cheap microprocessor xtals. Using 47 Pf
silver micas it has a very nice bandpass curve, 2000 Hz at the -3dB
points..I guess we could say that the Cohn is the lazy man's filter. That's
why I like it.
73,
Don K5AAR

Date: Sat, 10 Aug 2002 16:26:30 -0400 (Eastern Daylight Time)
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: <mparkes@att.net>, <qrp-l@lehigh.edu>
Subject: [131983] Re: DK9SQ mast repair question
Message-ID: <3D5576F6.000001.30907@pentium>
MIME-Version: 1.0
Content-Type: Text/Plain
Content-Transfer-Encoding: quoted-printable

If you just have some cracks and no missing material, I would try super glue
 I have had good luck with it myself.
73/72 - Mike WA8BXN

Date: Sat, 10 Aug 2002 14:49:23 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131984] Re: Coax shortened Dipole
Message-ID: <Pine.LNX.4.44.0208101445130.3856-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi George I agree with you but not sure just how the coax is used. On
the old Coax Dipole I recall we split the shield in the center of a 1/4
wave chunk of coax and feed the thing with coax hooked direct to the
antenna. The outside ends of the coax were shorted and hooked to a 1/8
wave wire. So the whole thing was 1/2 wave long.

 I used this antenna on 80 meters and it worked fine. Not sure
why....:-)

On Sat, 10 Aug 2002, George, W5YR wrote:

> Foxy, the difference is where the current flows that is making things
> happen.
>
> In a stub, the propagation mode is such that the currents are conveyed
> within the coax in differential mode, so the Vp comes into play. In the
> antenna situation, the current causing the antenna to radiate is carried by
> the coax outer braid and that mode does not involve the coax interior. So
> the Vp doesn't enter into the situation.
>
> What happens with the Bazooka or Coax Dipole antennas is simply that an

> open stub is connected to the radiator at an appropriate point such that
> the stub "loads" the antenna much in the manner of linear loading. In fact,
> this *is* linear loading but with a lossy load. It is the loss that
> accounts for the small increase in SWR bandwidth and the linear loading
> that accounts for the shortening of the radiator.
>
> No magic - just plain old physics . . . a plain piece of wire will do the
> job better.
>
> I have found that it is a challenge to disagree with Jim unless you are
> prepared with the facts and data to support your case. <:}
>
> 73/72/oo, George W5YR - the Yellow Rose of Texas
> Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
> Amateur Radio W5YR, in the 56th year and it just keeps getting better!
> QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
> Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437
>
>
> jfox6@houston.rr.com wrote:
> >
> > I have to disagree with James Duffy (same subject).
> > If the velocity factor has no effect on shortening the dipole, then how does
> > one account for the length of a stub which one had better take into
> > consideration or the stub will be too long. Go figure.
>

--
Yours Truly,

 - Karl F. Larsen, (505) 524-3303 -

Date: Sat, 10 Aug 2002 16:47:22 -0400
From: "ss lyon" <sslyon@megalink.net>
To: "chat qrp" <qrp-l@lehigh.edu>
Subject: [131985] Rock Mite Redux
Message-ID: <00e601c240af$207099e0$aac7e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'll try again tonite, in a tent a hundred yd. up the hill, Battery powered,
(~400mW) directly under the antenna at 55'. I'll have the folded dipole up
first, and maybe I'll change over to the 40m Half Square if it seems worth it.

(same supports -gotta swap wire -in the dark) Again, keyer will be calling "CQ CQ QRP AA1MY K". Please try to be VERY close to my freq (7.039+ and 7.040) as passband is limited by Dave Bensons xtal front end, and Steve Webers Analog Audio hind end. Hope to hit the west coast tonite... should be a snap compared to the G3 on the maiden voyage, ja?

Hoping for clear skies to see some Persieds!
72
"Seab" Lyon - AA1MY
Bethel, ME 04217 USA
N 44.3890 - W 70.8450
FN44nj aa1my@arrl.net

Date: Sat, 10 Aug 2002 16:51:55 -0400
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@lehigh.edu
Subject: [131986] Re: Dipole >?<
Message-ID: <20020810.165330.8878.0.kc8aon@juno.com>

DUH ! If you are making contacts "IT'S WORKING", if you are not making contacts, "IT AINT WORKING" . See how easy that was ? And who cares what it's called if it's working ? And knowing what it is and how it works doesn't make it work any better ! Remember, scientists have always said that it's impossible for a bumble bee to fly, except no one ever told the bumble bee !

KC8AON

On Sat, 10 Aug 2002 10:50:16 -0400 Bruce Muscolino <w6toy@erols.com> writes:
>Very good, and interesting point. please tell me, how do you know it
>is
>working the best it can if you don't know what it is or how it works!
>
>73

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http://dl.www.juno.com/get/web/.

Date: Sat, 10 Aug 2002 14:14:39 -0700
From: Dan Tayloe <dtayloe@cox.net>
To: qrp-l@lehigh.edu
Subject: [131987] Re: 'Mi-Te-Box update
Message-ID: <3D55823F.484809CC@cox.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Save two for me, please!

- Dan, N7VE

Date: Sat, 10 Aug 2002 15:14:40 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [131988] OT Linux is power
Message-ID: <Pine.LNX.4.44.0208101449340.3856-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I decided to get a new version of linux and wanted to back up all the stuff I did on this version. I put everything I do in my own login which is the karl login.

So I wanted to back up the directory /home/karl and all the sub directories. In linux there is a wonderful program written to record CD-Rom's called "cdrecord". Other software will take a defined directory and put it into a file. Then you use cdrecord to put the file on a cd.

I now have a complete backup of my stuff on one cd-rom which is very easy to move back onto a new linux system. The Red Hat version 7.3 I ordered from www.cheapbytes.com cost me $12.00 delivered to my postbox. Last time I downloaded the new version and it took 2 days...:-(.

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Sat, 10 Aug 2002 14:18:47 -0700
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [131989] RE: It's Crystal Clear (first filter) (1,464 words)
Message-ID: <021201c240b3$85ea8ca0$1fa3ad40@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Nick, your answer below in one word.

<
<need every edge including measurements, calculations, and knowing what kind
<of beer the judges like. Don't let the Doc get ahead of you on any of
<these tricks.

<72--Nick, WA5BDU

Guinness

72, Doug

Date: Sat, 10 Aug 2002 15:15:38 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [131990] Re: HB: Portable Free-Standing Antenna Mast Frame
Message-ID: <20020810.151540.-389221.5.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Monty, a great looking project - thanks for sharing
with the list.

73
Ray
It is amazing what you can accomplish if you do not
care who gets the credit. HST
Ray Colbert, W5XE, OOTC#3618, SOWP#1064M
NARTE-NCT2R FP# 111, SOC#78,QRP-ARCI 5784,
El Paso,(FAR WEST)TEXAS

Date: Sat, 10 Aug 2002 17:20:58 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>, ". NJ QRP-L" <njqrp@njqrp.org>
Subject: [131991] Appalachian Trail Activation Sunday Morning, Aug. 11
Message-ID: <001001c240b3$d2e14ee0$d3e65cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sunday morning, August 11th, I will be calling "CQ AT" from the Appalachian Trail in southwestern Virginia.

I will be near The Narrows in Giles County, on Peters Mountain near Turnhole Knob overlooking the New River.

The operating hours will be from approximately 10:30 to 12:30 EDST.

The frequency will be 7.043 +, as I generally tune up from there looking for a clear frequency.

I hope you will give me a short QSO, especially if you are working for credit toward your Appalachian Trail Award.

I will try to work as many stations as I can. I will try not to rattle on--my usual tendency! Help me from myself!

I will be running my Elecraft K2 (with internal battery) at 5 watts into an inverted Vee up in the overhead trees.

For information on the various Appalachian Trail awards, see www.n3epa.org.

I hope to hear you!

73,

Carter Craigie N3AO/4
Visiting in Virginia

Date: Sat, 10 Aug 2002 17:23:49 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: kc8aon@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131992] Re: Dipole >?<

Message-ID: <3D558465.CE009A0A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Nice bit of advice. I'll tell the next bumblebee that stops ny.

I disagree that if it works that's all there is to it. Have you ever heard your car running on 3 cylinders? It's working, but it can't get out of its own way. The same is true of radio signals. Why take a QRP signal and make it a QRPppp signal because you have not optimized your antenna?

Sure it works, but how many contacts do you miss!

73

Date: Sat, 10 Aug 2002 14:28:33 -0700
From: "Peter A. Bonucci" <pbonucci@slonet.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131993] How do I set up an inexpensive HF station?
Message-ID: <3D558581.4010803@slonet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

My son (9 years old) and I are working on getting our technician with code licenses and I would like to set up a HF station.

Because I don't know how long he will stay interested, I would like to keep this to less than US$250. I thought that the "doing more with less" people could help me out on this. I am concerned that mW power levels would be too frustrating and would like keep it near or above 5 W. Kits would be acceptable, if it keeps the price down.

I think that he would be thrilled to make international contacts and I would accept a single-band installation, if he could get a taste of DX. As an ex-SWL, I find the concept of a receiver that has a range of 50 kHz disturbing but, if this is a viable introduction to ham radio for my son, I will accept it.

So, what all do I need to give my son a taste of what HF is like without spending a lot of money?

Peter A. Bonucci

Date: Sat, 10 Aug 2002 14:37:56 -0700
From: "Doug Hauff" <dhauff@digitalputty.com>
To: "Steve Smith" <sigcom@juno.com>
Cc: <qrp-l@lehigh.edu>
Subject: [131994] Re: 'Mi-Te-Box update
Message-ID: <002301c240b6$47b70f00$7d393442@fix.net>
MIME-Version: 1.0
Content-Type: text/plain;
	charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>
> PLEASE.....make it the same color and shade as the
> paddles. Either that or black. Now -that- would be a hot contrast.

Actually I was thinking maybe Gold....??

Doug KE6RIE

>
>

Date: Sat, 10 Aug 2002 17:50:58 -0400 (EDT)
From: Chris Cartwright <ccart@phideaux.com>
To: QRPL List <qrp-l@lehigh.edu>
Subject: [131995] OT - Quickcam software
Message-ID: <Pine.LNX.4.33.0208101746010.8568-100000@dns.phideaux.com.>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Over the years I seem to have ended up with a grayscale Connectix
Quickcam, and Quickcam VC color software. It's a long shot, but does
anyone have the grayscale software that I could store a copy "offsite" for
them? Should be three 1.44M floppys, happy to reimburse costs. I have the
2.1 upgrade for grayscale, but it doesn't like the VC software.

FWIW, this is for moon tracking with a 4M dish, but off topic enough that
I think replys should be direct. Thanks,

-- Chris Cartwright, Unix Administrator | ccart@phideaux.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Oxford, PA 19363 FM29as --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Sat, 10 Aug 2002 17:57:26 -0400
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [131996] We need an answer to our confusion...
Message-ID: <F25HBU5pUxHJWBGEXq30001e2b6@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

"It's Rock Mite baby, Rock Mite baby, all night long"

With apologies to John Kay and Steppenwolf...

I'll listen for you guys on the 'Rock Mite channel' tonight.
Can't xmit on 40 right now.

Hey, how about a switch with a 'wide position' around that FB xtal
filter...just to see what's happenin' nearby, occasionally...

73.
Bill, N4QA
http://www.qsl.net/n4qa/
Due to spam countermeasures, I see responses via this list and personal
contacts list only.

MSN Photos is the easiest way to share and print your photos:
http://photos.msn.com/support/worldwide.aspx

Date: Sat, 10 Aug 2002 15:02:27 -0700

From: <bowerm@ix.netcom.com>
To: qrp-l@lehigh.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [131997] Re: 'Mi-Te-Box update
Message-ID: <Springmail.0994.1029016947.0.70828600@webmail.pas.earthlink.net>

maybe we should have a pole.

On Sat, 10 Aug 2002 14:37:56 -0700 Doug Hauff <dhauff@digitalputty.com> wrote:

>
> PLEASE.....make it the same color and shade as the
> paddles. Either that or black. Now -that- would be a hot contrast.

Actually I was thinking maybe Gold....??

Doug KE6RIE

>
>

Date: Sat, 10 Aug 2002 17:03:38 -0500
From: "George, W5YR" <w5yr@att.net>
To: "qrp-l@Lehigh.edu" <qrp-l@lehigh.edu>, elecraft@mailman.qth.net,
 DigRadNet@mailman.qth.net, icom@mailman.qth.net,
Subject: [131998] Magazine Article?
Message-ID: <3D558DBA.B320A08D@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I would like to thank the several folks on these lists who offered to copy
and send the requested CQ article. I have been taken care of in fine style
as hams continue to help hams.

Thanks much, folks!

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

Date: Sat, 10 Aug 2002 18:21:40 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Cc: rod@n0rc.us, sslyon@megalink.net
Subject: [131999] SUNDAY'S ROCK NITE
Message-ID: <3.0.6.32.20020810182140.007b9c40@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've been thinking again..

If we all get on Sunday night at 10 pm local with our R/M's, SMK-1's,TT-2 or whatever, and start calling CQ, since we're all mostly on the same frequency, mayham could result ! (okay, that's optimistic, but it could happen :-)

So, maybe we could work this sorta like a FOX hunt. Have one station in each time zone designated as the "Master Rock" After an hour, he would turn it over to a "MR" in the next time zone. MR stations would call "CQ RN" exchange RST, SPC, name, type of rig (RM, SMK, TT2 or HBX) and power. You don't have to be in the same TZ as the MR to work 'em.

I nominate Seab, AA1MY to be the first Eastern time zone "Master Rock" and Ron, N0RC to be the Mountian time zone "Master Rock" - if that's okay with you guys :-) Any volunters for Central and Pacific?

Geez, are we nuts or what? Is this getting too carried away and we should just try the free for all and see how it goes?

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
http://www.qsl.net/kd1jv/

Date: Sat, 10 Aug 2002 15:19:08 -0700

From: Conrad Weiss <radman@best.com>
To: "'Doug Hauff'" <dhauff@digitalputty.com>,
 Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [132000] RE: 'Mi-Te-Box update
Message-ID: <01C24081.466E7C80@209-162-48-3.thegrid.net>

Doug,

GOLD !!!??? For the "Mi-Te-Box??" Are you certifiably NutZ, man? :)!

Don't make me and the "Sons of Satan" ride down there to San Luis Machine
on our Harleys and have the "discussion" about Doug Hauff >>BLUE<< ;)!

We're counting on you, brother ;)

Party on,

Conrad
NN6CW

From: Doug Hauff[SMTP:dhauff@digitalputty.com]
Sent: Saturday, August 10, 2002 2:38 PM
To: Low Power Amateur Radio Discussion
Subject: Re: 'Mi-Te-Box update

>
> PLEASE.....make it the same color and shade as the
> paddles. Either that or black. Now -that- would be a hot contrast.

Actually I was thinking maybe Gold....??

Doug KE6RIE

Date: Sat, 10 Aug 2002 15:28:49 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@lehigh.edu>
Subject: [132001] Re: NorCal VXO Contest Entries
Message-ID: <MABBJOEABOILMKCJCLFCEEBCDIAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Follow up note:
Please include return postage if you want your entry back :-)
73, Bob N6WG

Date: Sat, 10 Aug 2002 16:29:57 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Peter A. Bonucci" <pbonucci@slonet.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [132002] Re: How do I set up an inexpensive HF station?
Message-ID: <Pine.LNX.4.44.0208101618210.1661-100000@Daisy.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Peter, I am a VE and you both should study just a bit longer and get the General Class license. It is good for 10 years. If you don't get it the code test CSCE is only good for 1 year and expires and can't be renewed without another code test.

Now for a rig. Depends on your son's interest. A kit saves money but a good kit that's a whole radio will be too hard to start with and I don't recommend it.

When you get your license then look at the new radios that are there. I have a Yaseu FT-817 that's a real good all band small radio that runs a max power of 5 watts any mode. This radio may be down to below $600 now and even lower when you get ready to buy one. If the Ham Radio interest dies you can sell this radio easy on the QRP-L list.

On Sat, 10 Aug 2002, Peter A. Bonucci wrote:

> My son (9 years old) and I are working on getting our technician with
> code licenses and I would like to set up a HF station.
>
> Because I don't know how long he will stay interested, I would like to
>
> Peter A. Bonucci

--
Yours Truly,

- Karl F. Larsen, (505) 524-3303 -

Date: Sat, 10 Aug 2002 09:16:33 -0700 (PDT)
From: Nelson Winter <thenels@go.com>
To: qrp-l@lehigh.edu
Subject: [132003] Re: Got My Rock-Mite!!!!
Message-ID: <7832897.1028996193501.JavaMail.thenels@gomailjtp01>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Is there a URL for the AARP?

-----Original Message-----
From: "Dennis Ponsness"<wb0wao@hotmail.com>
To: "Low Power Amateur Radio Discussion"<qrp-l@Lehigh.EDU>
Date: Fri Aug 09 23:24:25 PDT 2002
Subject: Got My Rock-Mite!!!!

>WOW!!! Got mine today and can't wait till I start building it up. Dave did
>an excellent (as usual) job with this one. I bet it will be one of his
>consistant big sellers. Now, tomorrow, I will order one of Steve's AAPB's
>to go with it (Steve, you may want to rethink the "limited run" of this kit
><grin>). Putting it all in a nice case I got a while back. I will send
>some pics to Rod for the Rock-Mite site! Now, if we can get Dave to offer
>it in some other bands!
>
>72 es oo
>
>Dennis - WB0WAO
>
>
>NJQRP #329
>FPQRP #-347
>SOC #499
>FISTS # 9299
>GACW #622
>
>_____
>Chat with friends online, try MSN Messenger: http://messenger.msn.com
>

GO.com Mail
Get Your Free, Private E-mail at http://mail.go.com

End of QRP-L Digest 2643

